

FREMONT ENVIRONMENTAL INC.

August 29, 2024

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

Subject: **Flowline Closure Data Submittal**
 Lucci B01-20
 API # 05-123-25938
 SWNW Sec. 1, T5N, R64W
 Weld County, Colorado
 Fremont Project No. C024-050
 Remediation # 29696

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline closure activities for the Noble Energy Inc. (Noble) Lucci B01-20. Impacted soil was not encountered during abandonment activities. Details of the Lucci B01-20 flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

Please contact me at (303) 261-6246 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Stanley Gilbert
Environmental Scientist

Attachments:

Facility Closure Checklist
Tables
Figures
Photos
Laboratory Report

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

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: LUCCI B 1-20		Date: 03/05/2024						Remediation Project #: 29696
Associated Wells: API:05-123-25938		Age of Site: 2007						Number of Photos Attached: 2
Starting point: (GPS coordinates and descriptions) 40.428021, -104.502734								
End point: (GPS coordinates and descriptions) 40.428594, -104.503214								
USCS Soil Type: SP					Estimated Depth to Groundwater: >5'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed								
Flowlines								
Flowline type	OIL/Water/Gas							
Depth	3'- 5'							
Age	2007							
Length	353'							
Construction Material	Steel							
Were flowlines pulled?	No, AIP							
Visual Integrity of lines	N/A							
Visual impacts if trenched	N/A							
PID Readings if trenched	N/A							
Sample taken? Location/Sample ID#	Yes, see attached							
Photo Number(s)	See attached							
Other observations regarding on location flowlines: Flowline was fully abandoned in place starting at Separator (FL01 5') to wellhead (FL02 3')								
Summary								
Was impacted soil identified? ☒ No ☐ Yes - less than 10 cubic yards ☐ Yes - more than 10 cubic yards								
Total number of samples field screened: 0					Total number of samples collected: 2			
Highest PID Reading: 2.0ppm (FL02 3')					Total number of samples submitted to lab for analysis: 2			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required? No								
Was groundwater encountered during the investigation? ☒ No ☐ Yes - not impacted or in contact with impacted soils ☐ Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes ☐ No ☐			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater? ☐ Yes ☐ No					Volume of groundwater removed prior to sampling:			
Free product observed? ☐ Yes ☐ No					Volume of groundwater removed post sampling:			
Total number of samples collected:					Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:								

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
LUCCI B01-20, WELD COUNTY, COLORADO
REM # 29696

Sample ID	Sample Date	Depth	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude/Longitude			
FL01 5'	03/04/2024	5'	40.4280193	-104.50274	-	0.9
FL02 3'	03/04/2024	3'	40.4285905	-104.50321	-	2.0
BKG01	03/04/2024	3', 4', 5'	40.4284497	-104.50342	-	0.0
BKG02	03/04/2024	3', 4', 5'	40.4286838	-104.50360	-	0.0
BKG03	03/04/2024	3', 4', 5'	40.4281605	-104.50208	-	0.0
BKG04	03/04/2024	3', 4', 5'	40.4281109	-104.49846	-	0.0
BKG05	03/04/2024	3', 4', 5'	40.4286791	-104.49854	-	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
LUCCI B01-20, WELD COUNTY, COLORADO
REM # 29696

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FL01 5'	03/04/2024	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL02 3'	03/04/2024	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.
 = Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
LUCCI B01-20, WELD COUNTY, COLORADO
REM # 29696

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01 5'	03/04/2024	5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL02 3'	03/04/2024	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
NA - Not analyzed
= Source material characterization sample, excavated and transported off site for disposal.
= Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
LUCCI B01-20, WELD COUNTY, COLORADO
REM # 29696

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 5'	03/04/2024	5'	8.58	0.236	0.387	<2.00
FL02 3'	03/04/2024	3'	8.94	0.162	0.0111	<2.00
BKG01 3'	03/04/2024	3'	8.76	0.121	0.220	<2.00
BKG01 4'	03/04/2024	4'	8.70	0.143	0.627	<2.00
BKG01 5'	03/04/2024	5'	8.51	0.177	0.585	<2.00
BKG02 3'	03/04/2024	3'	8.57	0.150	0.245	<2.00
BKG02 4'	03/04/2024	4'	8.54	0.231	0.500	<2.00
BKG02 5'	03/04/2024	5'	8.48	0.194	0.460	<2.00

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BKG03 3'	03/04/2024	3'	8.55	0.149	0.0229	<2.00
BKG03 4'	03/04/2024	4'	8.61	0.143	0.0302	<2.00
BKG03 5'	03/04/2024	5'	8.75	0.133	0.0484	<2.00
BKG04 3'	03/04/2024	3'	8.72	0.139	0.0328	<2.00
BKG04 4'	03/04/2024	4'	8.74	0.114	0.0275	<2.00
BKG04 5'	03/04/2024	5'	8.59	12.2	58.1	<2.00
BKG05 3'	03/04/2024	3'	7.85	0.0535	0.0425	<2.00
BKG05 4'	03/04/2024	4'	7.78	0.129	0.0298	<2.00
BKG05 5'	03/04/2024	5'	8.09	0.0941	0.0618	<2.00
Maximum Root Background Concentration (0 - 3 ft)			8.76	0.150	0.245	<2.00
Average Root Background Concentration (0 - 3 ft)			8.49	0.123	0.113	<2.00
Maximum Background Concentration			8.76	12.2	58.1	<2.00
Average Background Concentration			8.48	0.945	4.07	<2.00

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

 = Source material characterization sample, excavated and transported off site for disposal.

 = Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
LUCCI B01-20, WELD COUNTY, COLORADO
REM # 29696

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01 5'	03/04/2024	5'	2.70	54.8	0.207	<0.30	4.81	7.22	4.51	<0.260	0.0217	20.7
FL02 3'	03/04/2024	3'	3.16	70.2	<0.200	<0.30	3.89	7.78	3.40	<0.260	<0.0200	16.9
BKG01 3'	03/04/2024	3'	1.48	38.8	<0.200	<0.30	2.43	3.63	2.16	<0.260	<0.0200	10.1
BKG01 4'	03/04/2024	4'	1.83	52.8	<0.200	<0.30	2.24	3.85	2.39	<0.260	<0.0200	11.2
BKG01 5'	03/04/2024	5'	2.82	79.7	<0.200	<0.30	2.88	5.54	3.44	<0.260	0.024	14.4
BKG02 3'	03/04/2024	3'	1.45	41.5	<0.200	<0.30	2.38	3.87	2.09	<0.260	<0.0200	9.68
BKG02 4'	03/04/2024	4'	2.14	66.7	<0.200	<0.30	2.58	4.59	2.81	<0.260	<0.0200	13.2
BKG02 5'	03/04/2024	5'	2.51	60.9	<0.200	<0.30	2.59	5.61	3.09	<0.260	0.0266	13.0
BKG03 3'	03/04/2024	3'	1.70	52.2	<0.200	<0.30	1.75	3.13	2.15	<0.260	<0.0200	8.71
BKG03 4'	03/04/2024	4'	2.00	60.0	<0.200	<0.30	1.93	3.48	2.44	<0.260	<0.0200	9.91
BKG03 5'	03/04/2024	5'	2.08	79.6	<0.200	<0.30	2.18	3.61	2.56	<0.260	<0.0200	10.0
BKG04 3'	03/04/2024	3'	1.62	46.3	<0.200	<0.30	1.59	3.08	1.94	<0.260	<0.0200	8.38
BKG04 4'	03/04/2024	4'	1.86	61.7	<0.200	<0.30	1.68	4.34	2.18	<0.260	<0.0200	9.30
BKG04 5'	03/04/2024	5'	4.67	176	0.404	<0.30	3.30	6.82	4.11	<0.260	0.0454	15.1
BKG05 3'	03/04/2024	3'	1.37	30.9	<0.200	<0.30	2.33	3.60	2.36	<0.260	<0.0200	11.1
BKG05 4'	03/04/2024	4'	1.29	31.4	<0.200	<0.30	1.89	3.87	1.93	<0.260	<0.0200	9.76
BKG05 5'	03/04/2024	5'	1.40	30.4	<0.200	<0.30	2.23	3.50	2.12	<0.260	<0.0200	10.4
Maximum Root Zone Background Concentration (0 - 3 ft)			1.70	52.2	<0.200	<0.30	2.43	3.87	2.36	<0.260	<0.0200	11.1
125% Average Root Zone Background Concentration (0 - 3 ft)			1.91	52.4	<0.200	<0.30	2.62	4.33	2.68	<0.260	<0.0200	12.0
Maximum Background Concentration			4.67	176	0.404	<0.30	3.30	6.82	4.11	<0.260	0.0454	15.1
125% Average Background Concentration			2.52	75.7	0.267	<0.30	2.83	5.21	3.15	<0.260	0.0400	13.7

1. Bold values exceed the ECMC Table 915-1 limit(s)

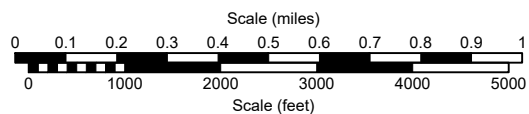
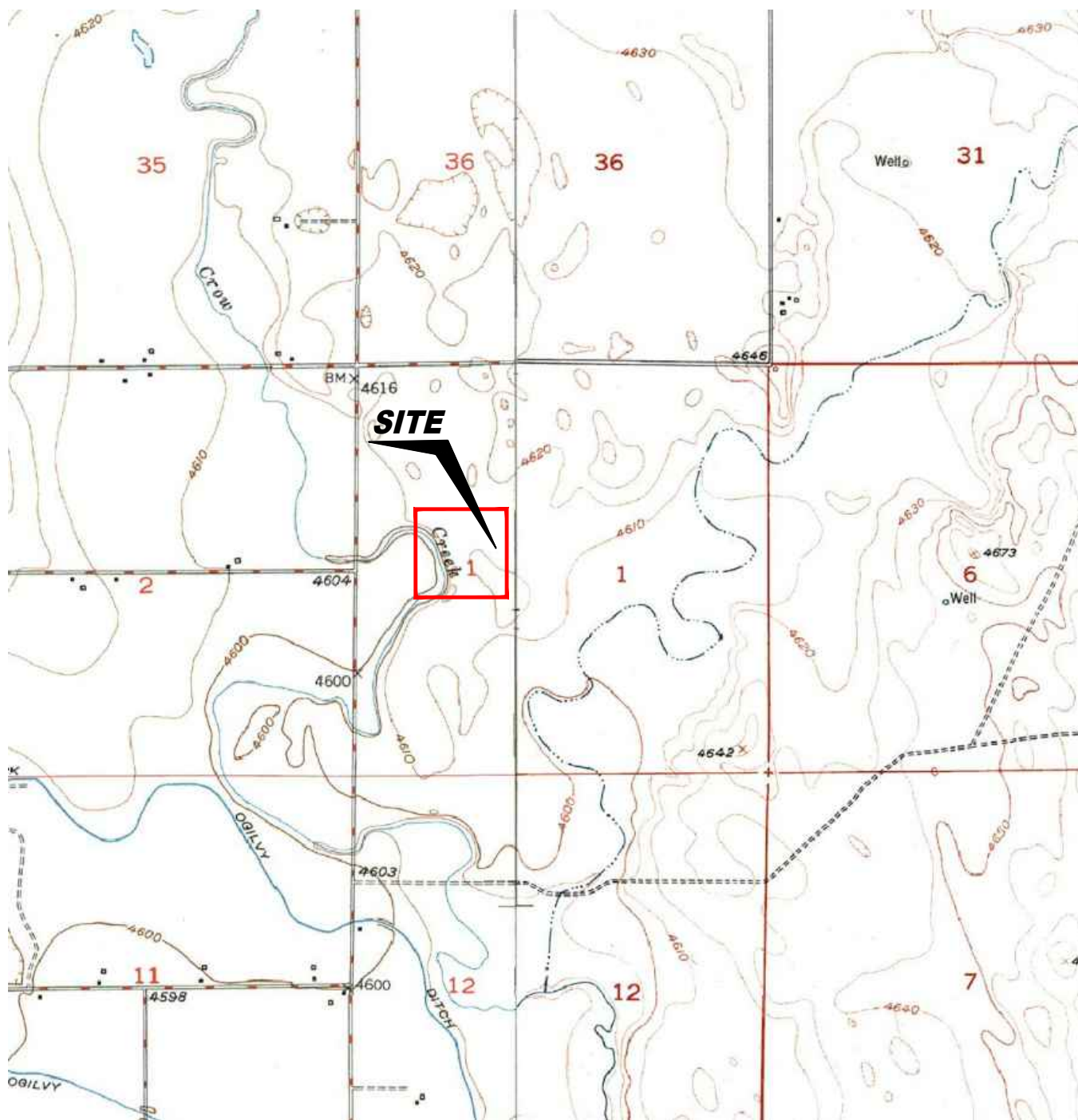
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1

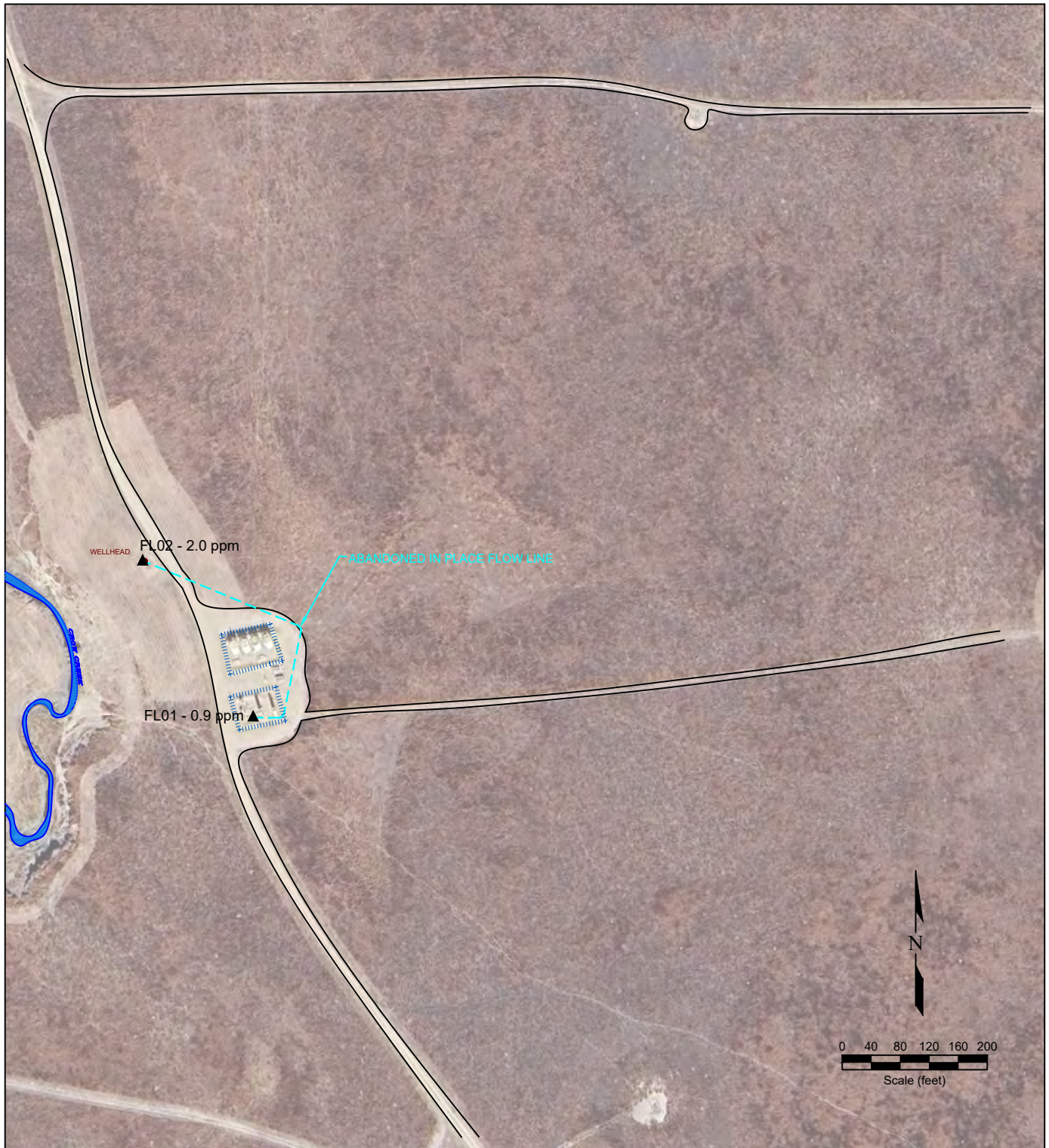
SITE LOCATION MAP

Noble Energy Inc. ~ Lucci B 1-20

SWNW Sec. 1, T5N, R64W, 6th PM
Weld County, Colorado
40.428584°, -104.503234°

Project # CO24-050	API # 05-123-25938	Facility #
Date 8/5/24	Remediation # 29696	Filename 24050T





LEGEND

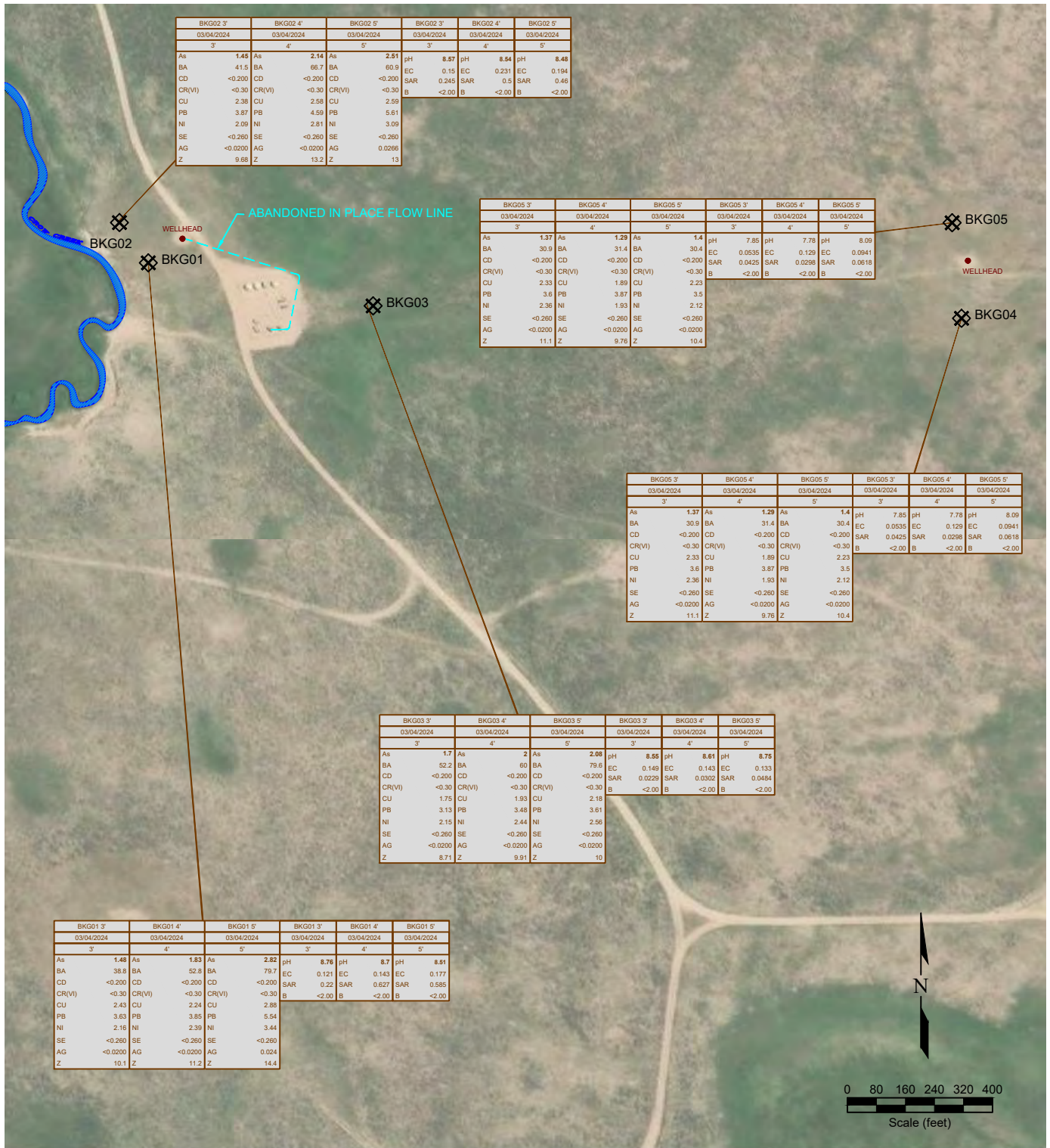
● WELL HEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	FORMER FLOW LINE
▲ PID READING LOCATION			FENCE LINE
			CONTAINMENT BERM
			CONTAINMENT WALL

Figure 2
SITE MAP

Noble Energy Inc. ~ Lucci B 1-20

SWNW Sec. 1, T5N, R64W, 6th PM
Weld County, Colorado
40.428584°, -104.503234°

Project No. CO24-050	API # 05-123-25938	Facility #	
Date 8/30/24	Remediation # 29696	Filename 24050Q	



LEGEND

- WELL HEAD LOCATION
- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- NOT ANALYZED

SAMPLE	SAMPLE ID
DATE	DATE SAMPLED
DEPTH	DEPTH (ft)
As	As (mg/kg)
BA	BA (mg/kg)
CD	CD (mg/kg)
CR(VI)	CR(VI) (mg/kg)
CU	CU (mg/kg)
PB	PB (mg/kg)
NI	NI (mg/kg)
SE	SE (mg/kg)
AG	AG (mg/kg)
Z	Z (mg/kg)

SAMPLE	SAMPLE ID
DATE	DATE SAMPLED
DEPTH	DEPTH (ft)
pH	pH (unitless)
EC	EC (microhm/cm)
SAR	SAR (unitless)
B	BORON (mg/L)

Figure 4
BACKGROUND SAMPLE SOIL CHEMISTRY MAP
Noble Energy Inc. ~ Lucci B 1-20

SWNW Sec. 1, T5N, R64W, 6th PM
Weld County, Colorado
40.428584°, -104.503234°

Project No. CO24-050	API # 05-123-25938	Facility #
Date 8/30/24	Remediation # 29696	Filename 24050QBKG





Description:

#1-FL01 5'- Start of abandonment at separator, no visual staining or odor



Description:

#2-FL02 3'-End of abandonment at wellhead no visual staining or odor

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 26, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

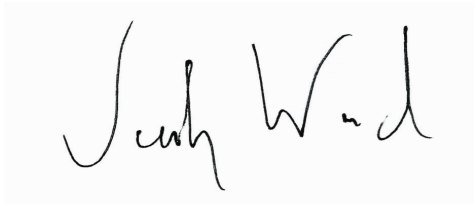
Wellington, CO 80549

RE: Noble - Lucci B01-20

Work Order #2403047

Enclosed are the results of analyses for samples received by Summit Scientific on 03/04/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20

Project Number: UWRWE-A2067-ABN

Project Manager: Paul Henchan

Reported:
03/26/24 11:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 5'	2403047-01	Soil	03/04/24 12:50	03/04/24 16:30
FL02 3'	2403047-02	Soil	03/04/24 12:55	03/04/24 16:30

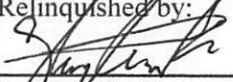
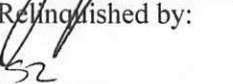
Summit Scientific

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.

2403047

Client: Fremont Environmental		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henehan		Company: Noble	
City/State/Zip:		E-Mail: Fremont Distribution List		Project Name/Location:	
Phone: 303-261-6246		Project Name: Luccy 801-20		AFE#:	
Sampler Name: Stanley Gilbert		Project Number:		PO/Billing Codes: UWRWE-A2067-ABN	
				Contact: Mike Montoya	

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD		
1	FL015'	3/4/24	12:50	2			X			X			X	X	X	X	X					
2	FL02 3'	3/4/24	12:55	2			X			X			X	X	X	X	X					
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: 	Date/Time: 3/4/24 14:50	Received by: Summit West	Date/Time: 3/4/24 14:50	TAT Business Days	Field DO	Notes:
Relinquished by: 	Date/Time: 3/4/24 14:50	Received by: 	Date/Time: 3/4/24 14:50	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 12.7	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2403047Client: FremontClient Project ID: Lucci B01-20Shipped Via: H.D./P.U./FedEx/UPS/USPS/OtherAirbill #:

☐	☐	☐	☐	☐
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

12.7

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.	☒	☐	☐	<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	☒	☐	☐	
Are samples due within 48 hours present?	☐	☒	☐	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	☐	☒	☐	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	☒	☐	☐	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	☒	☐	☐	
Were all samples received intact? ⁽¹⁾	☒	☐	☐	
Was adequate sample volume provided? ⁽¹⁾	☒	☐	☐	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	☒	☐	☐	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	☐	☒	☐	<u>no time stamps</u>
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	☐	☐	☒	<u>"</u>
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.	☐	☐	☒	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	☐	☐	☒	
If dissolved metals are requested, were samples field filtered?	☐	☐	☒	
Additional Comments (if any):				

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

3/4/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

FL01 5'
2403047-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0082	03/05/24	03/06/24	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: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0458	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	96.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0084	03/05/24	03/07/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.96	63.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

FL01 5'
2403047-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0080	03/05/24	03/07/24	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: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0270	80.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0186	55.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0446	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

FL01 5'
2403047-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.70	0.200	mg/kg dry	1	BHC0573	03/16/24	03/22/24	EPA 6020B
Barium	54.8	0.400	"	"	"	"	"	"
Cadmium	0.207	0.200	"	"	"	"	"	"
Copper	4.81	0.400	"	"	"	"	"	"
Lead	7.22	0.200	"	"	"	"	"	"
Nickel	4.51	0.400	"	"	"	"	"	"
Silver	0.0217	0.0200	"	"	"	"	"	"
Zinc	20.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0559	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.4	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	6.67	0.0500	"	"	"	"	"	"	
Sodium	11.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.387	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

FL01 5'
2403047-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	70.1	%	1	BHC0416	03/14/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.236	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

FL02 3'
2403047-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0082	03/05/24	03/06/24	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: **03/04/24 12:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0500	125 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0378	94.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0084	03/05/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.76	70.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

FL02 3'
2403047-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0080	03/05/24	03/07/24	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: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0333	100 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0241	72.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0446	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 12:55**

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

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

FL02 3'
2403047-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.16	0.200	mg/kg dry	1	BHC0573	03/16/24	03/22/24	EPA 6020B
Barium	70.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.89	0.400	"	"	"	"	"	"
Lead	7.78	0.200	"	"	"	"	"	"
Nickel	3.40	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	16.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0559	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	520	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	43.2	0.0500	"	"	"	"	"	"	
Sodium	0.984	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0111	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

FL02 3'
2403047-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.3		%	1	BHC0416	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.162	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.94		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0082 - EPA 5030 Soil MS

Blank (BHC0082-BLK1)

Prepared & Analyzed: 03/05/24

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	0.0480		"	0.0400		120	50-150			
Surrogate: Toluene-d8	0.0365		"	0.0400		91.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

LCS (BHC0082-BS1)

Prepared & Analyzed: 03/05/24

Benzene	0.113	0.0020	mg/kg	0.100		113	70-130			
Toluene	0.122	0.0050	"	0.100		122	70-130			
Ethylbenzene	0.118	0.0050	"	0.100		118	70-130			
m,p-Xylene	0.233	0.010	"	0.200		116	70-130			
o-Xylene	0.113	0.0050	"	0.100		113	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
Naphthalene	0.110	0.0038	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0479		"	0.0400		120	50-150			
Surrogate: Toluene-d8	0.0372		"	0.0400		92.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.3	50-150			

Matrix Spike (BHC0082-MS1)

Source: 2403036-01

Prepared & Analyzed: 03/05/24

Benzene	0.0978	0.0020	mg/kg	0.100	ND	97.8	70-130			
Toluene	0.109	0.0050	"	0.100	ND	109	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.213	0.010	"	0.200	ND	107	70-130			
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130			
1,2,4-Trimethylbenzene	0.0983	0.0050	"	0.100	ND	98.3	70-130			
1,3,5-Trimethylbenzene	0.0994	0.0050	"	0.100	ND	99.4	70-130			
Naphthalene	0.101	0.0038	"	0.100	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHC0082 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0082-MSD1)		Source: 2403036-01			Prepared & Analyzed: 03/05/24					
Benzene	0.0982	0.0020	mg/kg	0.100	ND	98.2	70-130	0.398	30	
Toluene	0.109	0.0050	"	0.100	ND	109	70-130	0.275	30	
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130	2.79	30	
m,p-Xylene	0.220	0.010	"	0.200	ND	110	70-130	2.83	30	
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130	3.58	30	
1,2,4-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130	2.14	30	
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	1.26	30	
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130	3.38	30	
Surrogate: 1,2-Dichloroethane-d4		0.0465	"	0.0400		116	50-150			
Surrogate: Toluene-d8		0.0369	"	0.0400		92.3	50-150			
Surrogate: 4-Bromofluorobenzene		0.0400	"	0.0400		100	50-150			

Summit Scientific

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Fremont Environmental
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Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0084 - EPA 3550A

Blank (BHC0084-BLK1)

Prepared: 03/05/24 Analyzed: 03/06/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.1		"	12.5		105	30-150			

LCS (BHC0084-BS1)

Prepared: 03/05/24 Analyzed: 03/06/24

C10-C28 (DRO)	419	50	mg/kg	500		83.9	70-130			
Surrogate: o-Terphenyl	9.96		"	12.5		79.7	30-150			

Matrix Spike (BHC0084-MS1)

Source: 2403036-01

Prepared: 03/05/24 Analyzed: 03/06/24

C10-C28 (DRO)	341	50	mg/kg	500	14.2	65.3	70-130			QM-07
Surrogate: o-Terphenyl	7.90		"	12.5		63.2	30-150			

Matrix Spike Dup (BHC0084-MSD1)

Source: 2403036-01

Prepared: 03/05/24 Analyzed: 03/06/24

C10-C28 (DRO)	358	50	mg/kg	500	14.2	68.8	70-130	4.99	20	QM-07
Surrogate: o-Terphenyl	9.06		"	12.5		72.5	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0080 - EPA 5030 Soil MS

Blank (BHC0080-BLK1)

Prepared: 03/05/24 Analyzed: 03/07/24

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	0.0286		"	0.0333		85.8	40-150			
Surrogate: Fluoranthene-d10	0.0313		"	0.0333		93.8	40-150			

LCS (BHC0080-BS1)

Prepared: 03/05/24 Analyzed: 03/07/24

Acenaphthene	0.0375	0.00500	mg/kg	0.0333	112	31-137
Anthracene	0.0315	0.00500	"	0.0333	94.6	30-120
Benzo (a) anthracene	0.0303	0.00500	"	0.0333	90.9	30-120
Benzo (a) pyrene	0.0331	0.00500	"	0.0333	99.4	30-120
Benzo (b) fluoranthene	0.0325	0.00500	"	0.0333	97.5	30-120
Benzo (k) fluoranthene	0.0380	0.00500	"	0.0333	114	30-120
Chrysene	0.0380	0.00500	"	0.0333	114	30-120
Dibenz (a,h) anthracene	0.0273	0.00500	"	0.0333	81.8	30-120
Fluoranthene	0.0358	0.00500	"	0.0333	107	30-120
Fluorene	0.0367	0.00500	"	0.0333	110	30-120
Indeno (1,2,3-cd) pyrene	0.0329	0.00500	"	0.0333	98.6	30-120
Pyrene	0.0380	0.00500	"	0.0333	114	35-142
1-Methylnaphthalene	0.0394	0.00500	"	0.0333	118	35-142
2-Methylnaphthalene	0.0347	0.00500	"	0.0333	104	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0297		"	0.0333	89.0	40-150
Surrogate: Fluoranthene-d10	0.0369		"	0.0333	111	40-150

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0080 - EPA 5030 Soil MS

Matrix Spike (BHC0080-MS1)

Source: 2403045-01

Prepared: 03/05/24 Analyzed: 03/07/24

Acenaphthene	0.0137	0.00500	mg/kg	0.0333	ND	41.1	31-137			
Anthracene	0.0110	0.00500	"	0.0333	ND	33.1	30-120			
Benzo (a) anthracene	0.0128	0.00500	"	0.0333	ND	38.5	30-120			
Benzo (a) pyrene	0.0123	0.00500	"	0.0333	ND	36.8	30-120			
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0	30-120			
Benzo (k) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.1	30-120			
Chrysene	0.0176	0.00500	"	0.0333	ND	52.8	30-120			
Dibenz (a,h) anthracene	0.0107	0.00500	"	0.0333	ND	32.2	30-120			
Fluoranthene	0.0155	0.00500	"	0.0333	ND	46.5	30-120			
Fluorene	0.0133	0.00500	"	0.0333	ND	40.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0110	0.00500	"	0.0333	ND	32.9	30-120			
Pyrene	0.0177	0.00500	"	0.0333	ND	53.0	35-142			
1-Methylnaphthalene	0.0124	0.00500	"	0.0333	ND	37.2	15-130			
2-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.2	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		48.0	40-150			
Surrogate: Fluoranthene-d10	0.0155		"	0.0333		46.5	40-150			

Matrix Spike Dup (BHC0080-MSD1)

Source: 2403045-01

Prepared: 03/05/24 Analyzed: 03/07/24

Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	64.0	31-137	43.6	30	QR-02
Anthracene	0.0162	0.00500	"	0.0333	ND	48.6	30-120	37.8	30	QR-02
Benzo (a) anthracene	0.0184	0.00500	"	0.0333	ND	55.2	30-120	35.8	30	QR-02
Benzo (a) pyrene	0.0187	0.00500	"	0.0333	ND	56.2	30-120	41.7	30	QR-02
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	18.1	30	
Benzo (k) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.5	30-120	36.5	30	QR-02
Chrysene	0.0233	0.00500	"	0.0333	ND	69.8	30-120	27.8	30	
Dibenz (a,h) anthracene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	37.5	30	QR-02
Fluoranthene	0.0231	0.00500	"	0.0333	ND	69.4	30-120	39.6	30	QR-02
Fluorene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	41.6	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0179	0.00500	"	0.0333	ND	53.6	30-120	47.8	30	QR-02
Pyrene	0.0232	0.00500	"	0.0333	ND	69.5	35-142	27.0	30	
1-Methylnaphthalene	0.0216	0.00500	"	0.0333	ND	64.7	15-130	54.0	50	QR-02
2-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.3	15-130	19.8	50	
Surrogate: 2-Methylnaphthalene-d10	0.0220		"	0.0333		66.1	40-150			
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.5	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

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

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

Batch BHC0446 - EPA 3050B

Blank (BHC0446-BLK1)

Prepared: 03/15/24 Analyzed: 03/21/24

Boron ND 2.00 mg/L

LCS (BHC0446-BS1)

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 4.70 2.00 mg/L 5.00 94.0 80-120

Duplicate (BHC0446-DUP1)

Source: 2403033-01

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 0.175 2.00 mg/L 0.195 10.5 20

Matrix Spike (BHC0446-MS1)

Source: 2403033-01

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 4.37 2.00 mg/L 5.00 0.195 83.5 75-125

Matrix Spike Dup (BHC0446-MSD1)

Source: 2403033-01

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 4.57 2.00 mg/L 5.00 0.195 87.5 75-125 4.53 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0573 - EPA 3050B

Blank (BHC0573-BLK1)

Prepared: 03/16/24 Analyzed: 03/22/24

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 (BHC0573-BS1)

Prepared: 03/16/24 Analyzed: 03/22/24

Arsenic	37.5	0.200	mg/kg wet	40.0	93.6	80-120
Barium	37.8	0.400	"	40.0	94.5	80-120
Cadmium	2.00	0.200	"	2.00	100	80-120
Copper	45.3	0.400	"	40.0	113	80-120
Lead	19.7	0.200	"	20.0	98.4	80-120
Nickel	44.6	0.400	"	40.0	111	80-120
Silver	2.00	0.0200	"	2.00	100	80-120
Zinc	45.2	0.400	"	40.0	113	80-120
Selenium	3.87	0.260	"	4.00	96.7	80-120

Duplicate (BHC0573-DUP1)

Source: 2403028-01

Prepared: 03/16/24 Analyzed: 03/22/24

Arsenic	1.39	0.200	mg/kg dry	1.47	5.14	20
Barium	45.8	0.400	"	44.1	3.72	20
Cadmium	0.0915	0.200	"	0.0842	8.27	20
Copper	3.09	0.400	"	2.87	7.60	20
Lead	4.60	0.200	"	4.04	12.9	20
Nickel	3.10	0.400	"	3.06	1.28	20
Silver	0.0111	0.0200	"	0.00983	12.2	20
Zinc	13.4	0.400	"	13.0	2.73	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0573 - EPA 3050B

Matrix Spike (BHC0573-MS1)

Source: 2403028-01

Prepared: 03/16/24 Analyzed: 03/22/24

Arsenic	40.7	0.200	mg/kg dry	42.7	1.47	91.7	75-125
Barium	80.4	0.400	"	42.7	44.1	84.8	75-125
Cadmium	2.24	0.200	"	2.14	0.0842	101	75-125
Copper	38.5	0.400	"	42.7	2.87	83.5	75-125
Lead	23.6	0.200	"	21.4	4.04	91.3	75-125
Nickel	38.3	0.400	"	42.7	3.06	82.5	75-125
Silver	2.09	0.0200	"	2.14	0.00983	97.2	75-125
Zinc	49.0	0.400	"	42.7	13.0	84.3	75-125
Selenium	4.27	0.260	"	4.27	ND	99.9	75-125

Matrix Spike Dup (BHC0573-MSD1)

Source: 2403028-01

Prepared: 03/16/24 Analyzed: 03/22/24

Arsenic	39.7	0.200	mg/kg dry	42.7	1.47	89.4	75-125	2.49	25
Barium	80.2	0.400	"	42.7	44.1	84.5	75-125	0.159	25
Cadmium	2.24	0.200	"	2.14	0.0842	101	75-125	0.324	25
Copper	37.8	0.400	"	42.7	2.87	81.8	75-125	1.91	25
Lead	23.6	0.200	"	21.4	4.04	91.6	75-125	0.286	25
Nickel	37.2	0.400	"	42.7	3.06	79.8	75-125	3.04	25
Silver	2.07	0.0200	"	2.14	0.00983	96.3	75-125	0.946	25
Zinc	47.9	0.400	"	42.7	13.0	81.6	75-125	2.34	25
Selenium	3.79	0.260	"	4.27	ND	88.7	75-125	12.0	25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0559 - 3060A Mod

Blank (BHC0559-BLK1)

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0559-BS1)

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BHC0559-DUP1)

Source: 2403046-01

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0559-MS1)

Source: 2403046-01

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 31.1 0.30 mg/kg dry 30.0 ND 104 75-125

Matrix Spike Dup (BHC0559-MSD1)

Source: 2403046-01

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 31.1 0.30 mg/kg dry 30.0 ND 104 75-125 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

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

Summit Scientific

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

Batch BHC0644 - General Preparation

Blank (BHC0644-BLK1)

Prepared: 03/18/24 Analyzed: 03/22/24

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

LCS (BHC0644-BS1)

Prepared: 03/18/24 Analyzed: 03/22/24

Calcium	5.65	0.0500	mg/L wet	5.00	113	70-130
Magnesium	5.14	0.0500	"	5.00	103	70-130
Sodium	5.11	0.0500	"	5.00	102	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20

Project Number: UWRWE-A2067-ABN

Project Manager: Paul Henchan

Reported:
03/26/24 11:07

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

Summit Scientific

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

Batch BHC0416 - General Preparation

Duplicate (BHC0416-DUP1)

Source: 2403046-01

Prepared: 03/14/24 Analyzed: 03/16/24

% Solids	83.0	%	83.4	0.476	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

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

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

Batch BHC0646 - General Preparation

Blank (BHC0646-BLK1)

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC0646-BS1)

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHC0646-DUP1)

Source: 2403046-01

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.133 0.0100 mmhos/cm 0.132 0.377 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

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

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

Batch BHC0645 - General Preparation

LCS (BHC0645-BS1)

Prepared: 03/18/24 Analyzed: 03/24/24

pH	9.03	pH Units	9.18	98.4	95-105
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Duplicate (BHC0645-DUP1)

Source: 2403046-01

Prepared: 03/18/24 Analyzed: 03/24/24

pH	8.77	pH Units	8.79	0.228	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-20
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:07

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.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 26, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

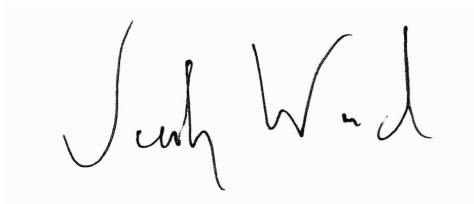
Wellington, CO 80549

RE: Noble - Lucci 20,21 (BKG)

Work Order #2403048

Enclosed are the results of analyses for samples received by Summit Scientific on 03/04/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN

Project Manager: Paul Henchan

Reported:
03/26/24 11:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01 3'	2403048-01	Soil	03/04/24 11:25	03/04/24 16:30
BKG01 4'	2403048-02	Soil	03/04/24 11:30	03/04/24 16:30
BKG01 5'	2403048-03	Soil	03/04/24 11:35	03/04/24 16:30
BKG02 3'	2403048-04	Soil	03/04/24 11:40	03/04/24 16:30
BKG02 4'	2403048-05	Soil	03/04/24 11:45	03/04/24 16:30
BKG02 5'	2403048-06	Soil	03/04/24 11:50	03/04/24 16:30
BKG03 3'	2403048-07	Soil	03/04/24 11:55	03/04/24 16:30
BKG03 4'	2403048-08	Soil	03/04/24 12:00	03/04/24 16:30
BKG03 5'	2403048-09	Soil	03/04/24 12:05	03/04/24 16:30
BKG04 3'	2403048-10	Soil	03/04/24 12:10	03/04/24 16:30
BKG04 4'	2403048-11	Soil	03/04/24 12:15	03/04/24 16:30
BKG04 5'	2403048-12	Soil	03/04/24 12:20	03/04/24 16:30
BKG05 3'	2403048-13	Soil	03/04/24 12:25	03/04/24 16:30
BKG05 4'	2403048-14	Soil	03/04/24 12:30	03/04/24 16:30
BKG05 5'	2403048-15	Soil	03/04/24 12:35	03/04/24 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.

2403048

Client: Fremont Environmental				Send Data To:				Send Invoice To:																			
Address:				Project Manager: Paul Henehan				Company: Noble																			
City/State/Zip:				E-Mail: Fremont Distribution List				Project Name/Location:																			
Phone: 303-261-6246				Project Name: Lucc, 20, 21 (BKG)				AFE#:																			
Sampler Name: Stanley Gilbert				Project Number:				PO/Billing Codes: UWRWE-A2067-ABN																			
Contact: Mike Montoya																											
				Preservative				Matrix				Analysis Requested				Special Instructions											
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD								
1	BKG01 3'	3/4/24	11:25	1			X			X						X	X										
2	BKG01 4'		11:30																								
3	BKG01 5'		11:35																								
4	BKG02 3'		11:40																								
5	BKG02 4'		11:45																								
6	BKG02 5'		11:50																								
7	BKG03 3'		11:55																								
8	BKG03 4'		12:00																								
9	BKG03 5'		12:05																								
10	BKG04 3'		12:10																								
11	BKG04 4'		12:15																								
12	BKG04 5'		12:20																								
13	BKG05 3'		12:25																								
14	BKG05 4'		12:30																								
15	BKG05 5'		12:35																								
Relinquished by: [Signature]				Date/Time: 3/4/24 14:50				Received by: Summit North				Date/Time: 3/4/24 14:50				TAT Business Days				Field DO				Notes:			
Relinquished by: [Signature]				Date/Time: 3/4/24 1630				Received by: [Signature]				Date/Time: 3/4/24 1630				Same Day				Field EC							
																1 Day				Field ORP							
																2 Days				Field pH							
																3 Days				Field Temp.							
Relinquished by:				Date/Time:				Received by:				Date/Time:				Standard				Field Turb.							
Temperature Upon Receipt: 12.7				Corrected Temperature: 0				IR gun #: 1				HNO3 lot #:															

S₂

Sample Receipt Checklist

S2 Work Order# 2403048Client: FremontClient Project ID: Lucci 20,21 (BKG)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #: _____

☐	☒	☐	☐	☐
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

12.7

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.	☒	☐	☐	<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	☒	☐	☐	
Are samples due within 48 hours present?	☐	☒	☐	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	☐	☒	☐	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	☒	☐	☐	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	☒	☐	☐	
Were all samples received intact? ⁽¹⁾	☒	☐	☐	
Was adequate sample volume provided? ⁽¹⁾	☒	☐	☐	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	☒	☐	☐	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	☐	☒	☐	<u>no time stamps</u>
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	☐	☐	☒	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	☐	☐	☒	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	☐	☐	☒	
If dissolved metals are requested, were samples field filtered?	☐	☐	☒	
Additional Comments (if any):				

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

3/4/24
 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG01 3'
2403048-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.48	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	38.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.43	0.400	"	"	"	"	"	"	
Lead	3.63	0.200	"	"	"	"	"	"	
Nickel	2.16	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	12.8	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	1.88	0.0500	"	"	"	"	"	"	
Sodium	3.19	0.0500	"	"	"	"	03/22/24	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG01 3'
2403048-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.220	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.121	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG01 4'
2403048-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.83	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	52.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.24	0.400	"	"	"	"	"	"	
Lead	3.85	0.200	"	"	"	"	"	"	
Nickel	2.39	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	16.3	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	1.73	0.0500	"	"	"	"	"	"	
Sodium	9.96	0.0500	"	"	"	"	03/22/24	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG01 4'
2403048-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.627	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.9		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.143	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.70		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG01 5'
2403048-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.82	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	79.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.88	0.400	"	"	"	"	"	"	
Lead	5.54	0.200	"	"	"	"	"	"	
Nickel	3.44	0.400	"	"	"	"	"	"	
Silver	0.0240	0.0200	"	"	"	"	"	"	
Zinc	14.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	26.8	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	3.76	0.0500	"	"	"	"	03/22/24	"	
Sodium	12.2	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG01 5'
2403048-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.585	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.177	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG02 3'
2403048-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.45	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	41.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.38	0.400	"	"	"	"	"	"	
Lead	3.87	0.200	"	"	"	"	"	"	
Nickel	2.09	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.68	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	32.3	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	3.68	0.0500	"	"	"	"	"	"	
Sodium	5.51	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG02 3'
2403048-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.245	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG02 4'
2403048-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.14	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	66.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.58	0.400	"	"	"	"	"	"	
Lead	4.59	0.200	"	"	"	"	"	"	
Nickel	2.81	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	92.1	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	9.75	0.0500	"	"	"	"	"	"	
Sodium	18.9	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG02 4'
2403048-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.500	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.231	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG02 5'
2403048-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.51	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	60.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.59	0.400	"	"	"	"	"	"	
Lead	5.61	0.200	"	"	"	"	"	"	
Nickel	3.09	0.400	"	"	"	"	"	"	
Silver	0.0266	0.0200	"	"	"	"	"	"	
Zinc	13.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	57.2	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	3.15	0.0500	"	"	"	"	03/22/24	"	
Sodium	13.2	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG02 5'
2403048-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.460	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.2		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.194	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.48		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG03 3'
2403048-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.70	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	52.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.75	0.400	"	"	"	"	"	"	
Lead	3.13	0.200	"	"	"	"	"	"	
Nickel	2.15	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.71	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	69.9	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	2.08	0.0500	"	"	"	"	"	"	
Sodium	0.713	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG03 3'
2403048-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0229	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.3		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.149	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG03 4'
2403048-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.00	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	60.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.93	0.400	"	"	"	"	"	"	
Lead	3.48	0.200	"	"	"	"	"	"	
Nickel	2.44	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.91	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	71.6	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	3.52	0.0500	"	"	"	"	03/22/24	"	
Sodium	0.964	0.0500	"	"	"	"	03/22/24	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG03 4'
2403048-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0302	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.9		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.143	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG03 5'
2403048-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.08	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	79.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.18	0.400	"	"	"	"	"	"	
Lead	3.61	0.200	"	"	"	"	"	"	
Nickel	2.56	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	116	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	2.68	0.0500	"	"	"	"	"	"	
Sodium	1.93	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG03 5'
2403048-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0484	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.0		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.133	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.75		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG04 3'
2403048-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.62	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	46.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.59	0.400	"	"	"	"	"	"	
Lead	3.08	0.200	"	"	"	"	"	"	
Nickel	1.94	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.38	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	79.4	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	2.74	0.0500	"	"	"	"	"	"	
Sodium	1.09	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG04 3'
2403048-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0328	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.1		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.139	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG04 4'
2403048-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.86	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	61.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.68	0.400	"	"	"	"	"	"	
Lead	4.34	0.200	"	"	"	"	"	"	
Nickel	2.18	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.30	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	56.8	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	2.44	0.0500	"	"	"	"	"	"	
Sodium	0.780	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG04 4'
2403048-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0275	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.1		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.114	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.74		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG04 5'
2403048-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0450	03/15/24	03/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.67	0.200		mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	176	0.400		"	"	"	"	"	"	
Cadmium	0.404	0.200		"	"	"	"	"	"	
Copper	3.30	0.400		"	"	"	"	"	"	
Lead	6.82	0.200		"	"	"	"	"	"	
Nickel	4.11	0.400		"	"	"	"	"	"	
Silver	0.0454	0.0200		"	"	"	"	"	"	
Zinc	15.1	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	41.4	0.0500		mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	50.8	0.0500		"	"	"	"	"	"	
Sodium	2360	0.0500		"	"	"	"	03/22/24	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG04 5'
2403048-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	58.1	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	12.2	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG05 3'
2403048-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.37	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	30.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.33	0.400	"	"	"	"	"	"	
Lead	3.60	0.200	"	"	"	"	"	"	
Nickel	2.36	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	104	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	21.4	0.0500	"	"	"	"	"	"	
Sodium	1.82	0.0500	"	"	"	"	03/22/24	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG05 3'
2403048-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0425	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.8		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0535	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG05 4'
2403048-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.29	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	31.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.89	0.400	"	"	"	"	"	"	
Lead	3.87	0.200	"	"	"	"	"	"	
Nickel	1.93	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.76	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	170	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	19.6	0.0500	"	"	"	"	03/22/24	"	
Sodium	1.54	0.0500	"	"	"	"	03/22/24	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG05 4'
2403048-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0298	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.129	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG05 5'
2403048-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.40	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	30.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.23	0.400	"	"	"	"	"	"	
Lead	3.50	0.200	"	"	"	"	"	"	
Nickel	2.12	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	106	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	3.28	0.0500	"	"	"	"	03/22/24	"	
Sodium	2.37	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

BKG05 5'
2403048-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0618	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHC0417	03/14/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0941	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

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

Summit Scientific

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

Batch BHC0450 - EPA 3050B

Blank (BHC0450-BLK1)

Prepared: 03/15/24 Analyzed: 03/22/24

Boron	ND	2.00	mg/L
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LCS (BHC0450-BS1)

Prepared: 03/15/24 Analyzed: 03/22/24

Boron	4.52	2.00	mg/L	5.00	90.4	80-120
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Duplicate (BHC0450-DUP1)

Source: 2402113-13

Prepared: 03/15/24 Analyzed: 03/22/24

Boron	0.125	2.00	mg/L	0.139	11.0	20
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Matrix Spike (BHC0450-MS1)

Source: 2402113-13

Prepared: 03/15/24 Analyzed: 03/22/24

Boron	5.02	2.00	mg/L	5.00	0.139	97.6	75-125
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Matrix Spike Dup (BHC0450-MSD1)

Source: 2402113-13

Prepared: 03/15/24 Analyzed: 03/22/24

Boron	4.73	2.00	mg/L	5.00	0.139	91.8	75-125	5.95	25
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0577 - EPA 3050B

Blank (BHC0577-BLK1)

Prepared: 03/16/24 Analyzed: 03/23/24

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 (BHC0577-BS1)

Prepared: 03/16/24 Analyzed: 03/23/24

Arsenic	39.5	0.200	mg/kg wet	40.0	98.7	80-120
Barium	40.0	0.400	"	40.0	100	80-120
Cadmium	2.04	0.200	"	2.00	102	80-120
Copper	43.2	0.400	"	40.0	108	80-120
Lead	20.2	0.200	"	20.0	101	80-120
Nickel	42.9	0.400	"	40.0	107	80-120
Silver	2.05	0.0200	"	2.00	102	80-120
Zinc	43.4	0.400	"	40.0	109	80-120
Selenium	4.51	0.260	"	4.00	113	80-120

Duplicate (BHC0577-DUP1)

Source: 2403048-01

Prepared: 03/16/24 Analyzed: 03/23/24

Arsenic	1.66	0.200	mg/kg dry	1.48	11.3	20
Barium	41.1	0.400	"	38.8	5.90	20
Cadmium	0.0946	0.200	"	0.0975	2.99	20
Copper	2.32	0.400	"	2.43	4.84	20
Lead	3.39	0.200	"	3.63	6.88	20
Nickel	2.13	0.400	"	2.16	1.16	20
Silver	0.00860	0.0200	"	0.00901	4.65	20
Zinc	9.54	0.400	"	10.1	5.66	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0577 - EPA 3050B

Matrix Spike (BHC0577-MS1)

Source: 2403048-01

Prepared: 03/16/24 Analyzed: 03/23/24

Arsenic	40.5	0.200	mg/kg dry	41.0	1.48	95.2	75-125
Barium	71.0	0.400	"	41.0	38.8	78.6	75-125
Cadmium	2.12	0.200	"	2.05	0.0975	98.9	75-125
Copper	37.1	0.400	"	41.0	2.43	84.5	75-125
Lead	23.4	0.200	"	20.5	3.63	96.5	75-125
Nickel	36.9	0.400	"	41.0	2.16	84.9	75-125
Silver	2.01	0.0200	"	2.05	0.00901	97.8	75-125
Zinc	44.6	0.400	"	41.0	10.1	84.3	75-125
Selenium	4.39	0.260	"	4.10	ND	107	75-125

Matrix Spike Dup (BHC0577-MSD1)

Source: 2403048-01

Prepared: 03/16/24 Analyzed: 03/23/24

Arsenic	41.0	0.200	mg/kg dry	41.0	1.48	96.4	75-125	1.28	25
Barium	70.8	0.400	"	41.0	38.8	78.2	75-125	0.261	25
Cadmium	2.17	0.200	"	2.05	0.0975	101	75-125	2.14	25
Copper	34.7	0.400	"	41.0	2.43	78.8	75-125	6.50	25
Lead	23.2	0.200	"	20.5	3.63	95.6	75-125	0.831	25
Nickel	34.6	0.400	"	41.0	2.16	79.2	75-125	6.57	25
Silver	2.03	0.0200	"	2.05	0.00901	98.6	75-125	0.872	25
Zinc	41.6	0.400	"	41.0	10.1	77.0	75-125	6.96	25
Selenium	4.20	0.260	"	4.10	ND	103	75-125	4.40	25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0562 - 3060A Mod

Blank (BHC0562-BLK1)

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0562-BS1)

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHC0562-DUP1)

Source: 2403048-01

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0562-MS1)

Source: 2403048-01

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 26.2 0.30 mg/kg dry 25.6 ND 102 75-125

Matrix Spike Dup (BHC0562-MSD1)

Source: 2403048-01

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 26.2 0.30 mg/kg dry 25.6 ND 102 75-125 0.00 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 - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

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

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

Batch BHC0644 - General Preparation

Blank (BHC0644-BLK1)

Prepared: 03/18/24 Analyzed: 03/22/24

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

LCS (BHC0644-BS1)

Prepared: 03/18/24 Analyzed: 03/22/24

Calcium	5.65	0.0500	mg/L wet	5.00	113	70-130
Magnesium	5.14	0.0500	"	5.00	103	70-130
Sodium	5.11	0.0500	"	5.00	102	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN

Project Manager: Paul Henchan

Reported:

03/26/24 11:10

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

Summit Scientific

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

Batch BHC0417 - General Preparation

Duplicate (BHC0417-DUP1)		Source: 2403048-01		Prepared: 03/14/24		Analyzed: 03/16/24	
% Solids	96.9		%		97.7		0.773 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

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

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

Batch BHC0646 - General Preparation

Blank (BHC0646-BLK1)

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC0646-BS1)

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHC0646-DUP1)

Source: 2403046-01

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.133 0.0100 mmhos/cm 0.132 0.377 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN

Project Manager: Paul Henchan

Reported:

03/26/24 11:10

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

Summit Scientific

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

Batch BHC0645 - General Preparation

LCS (BHC0645-BS1)

Prepared: 03/18/24 Analyzed: 03/24/24

pH	9.03	pH Units	9.18	98.4	95-105
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Duplicate (BHC0645-DUP1)

Source: 2403046-01

Prepared: 03/18/24 Analyzed: 03/24/24

pH	8.77	pH Units	8.79	0.228	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)
Project Number: UWRWE-A2067-ABN
Project Manager: Paul Henchan

Reported:
03/26/24 11:10

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