

# **FREMONT ENVIRONMENTAL INC.**

January 23, 2024

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

Subject:     **Excavation Report**  
Balboa C 20-9X, 23 Tank Battery  
NESE Sec. 20, T4N, R64W  
Weld County, Colorado  
Fremont Project No. C023-022  
Facility # 450395, Remediation #24048

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Excavation Report for the Balboa C 20-9X, 23 Tank Battery produced water vault release site in Weld County, Colorado. The enclosed report describes excavation actions to remediate impacted soil at the site.

Please contact me at (603) 477-6907 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,  
**FREMONT ENVIRONMENTAL INC.**

A handwritten signature in black ink that reads "Ethan Black". The signature is written in a cursive style with a large initial "E".

Ethan D. Black, PG  
Consultant

Enclosure

**EXCAVATION REPORT**

**NOBLE ENERGY INC.**

**BALBOA C 20-9X, 23 TANK BATTERY**

**WELD COUNTY, COLORADO**

**FREMONT PROJECT NO. C023-022**

**FACILITY #450395, REMEDIATION #24048**

**Prepared by:**

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**(303) 956-8714**

**January 23, 2024**

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## **EXCAVATION REPORT**

**NOBLE ENERGY INC.**

**BALBOA C 20-9X, 23 TANK BATTERY**

**WELD COUNTY, COLORADO**

**FREMONT PROJECT NO. C023-022**

**FACILITY #450395, REMEDIATION #24048**

### **1.0 INTRODUCTION**

The purpose of this document is to present information collected during the excavation of impacted soil at the Balboa C 20-9X, 23 Tank Battery (Balboa) produced water vault release location in Weld County, Colorado. Excavation of impacted soil was completed on November 30, 2023.

### **2.0 BACKGROUND INFORMATION**

#### **2.1 Site Location**

The Balboa site is located approximately 6.6 miles south of Kersey, Colorado in Weld County as shown on Figure 1. The site is located in an agricultural area approximately 0.64 miles south of the intersection of County Road 44 and County Road 53. The location is further described as the NE  $\frac{1}{4}$  of the SE  $\frac{1}{4}$  of Section 20, Township 4N, Range 64W.

#### **2.2 Site History**

The Balboa tank battery serviced multiple gas wells including the Balboa C 20-9X which was completed in September 2006 to a measured depth of 7,079 feet. Soil impacts related to a historical release at the produced water vault were observed following site decommissioning activities completed in February 2023.

### **3.0 FIELD ACTIVITIES**

Remediation efforts consisted of the excavation of impacted soil at and adjacent to the release area. The subsurface generally consisted of six inches of roadbase underlain by

five feet of well-graded sand transitioning to clay and weathered claystone from six feet to 13 feet below ground surface (bgs) within the excavation. Groundwater was not encountered within the excavation and is estimated to be 41 feet bgs based on a DWR Well Completion and Pump Installation Report (Permit No. 126189) for a domestic well located 622 feet south of the former Balboa location.

Excavation of the release area began on November 21, 2023 and was completed on November 30, 2023. Twenty-eight soil samples were collected at the Balboa location over the course of the six-day excavation at varying depths and field screened using a photoionization detector (PID). All soil samples collected within the excavation were submitted for analysis. Additionally, five background samples were collected in native soil, adjacent to the pad from similar depths and lithologies as the excavation confirmation samples and submitted for analysis of Table 915-1 metals and Soil Suitability for Reclamation constituents.

The soil samples were analyzed by Summit Scientific Inc. in Golden, Colorado for benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene, trimethylbenzenes, total petroleum hydrocarbons (TPH) - gasoline range organics (TPH-GRO) by EPA Method 8260B, and TPH - diesel range organics (TPH-DRO) and TPH - residual range organics (TPH-ORO) by EPA Method 8015, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270D, pH by APHA/ASTM/EPA methods, Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction for calculated analysis of sodium absorption ratio (SAR), electrical conductivity (EC) by EPA Method 120.1, Saturated Paste Extraction, boron (hot water soluble) and Table 915-1 metals by EPA 6020B. The laboratory's reports and chain-of-custody documentation are included in Appendix B and summarized in Tables 1 to 4.

The laboratory analyses indicate that petroleum constituents in soil samples collected from the excavation achieved the ECMC Table 915-1 Protection of Groundwater Standards (PGSSLs) for petroleum constituents. However, one sample (W Wall 13 Ft) collected within the excavation exceeded the ECMC Table 915-1 Residential Soil Screening Level (RSSLs) for arsenic as did all 10 background samples collected adjacent to the Balboa location. In addition, the W Wall 13 Ft sample exceed 125% times the maximum background concentration for arsenic. The operator proposes to resample arsenic at the W Wall 13 Ft sample location to confirm the presence of elevated arsenic greater than concentrations observed in the background characterization samples.

Approximately 580 cubic yards of impacted soil were removed via backhoe and hydrovac by Tasman Geosciences Inc. during the excavation. The impacted soil was disposed of at the Buffalo Ridge Landfill in Keenesburg, Colorado as non-hazardous waste. The excavation was backfilled using clean, imported fill.

#### **4.0 DISCUSSION**

As demonstrated by the soil sampling, petroleum impacted soil was removed from the release area at the Balboa location by excavation. This was confirmed by the analyses of soil samples collected from the excavation which were below the ECMC Table 915-1 PGSSLs for petroleum constituents excluding arsenic.

Approximately 580 cubic yards of impacted soil were removed and transported to the landfill. The soil data are illustrated and summarized in the attached tables and figures.

Additional confirmation sampling at the W Wall 13 Ft sample location will be conducted to confirm elevated arsenic is present within the excavation. A minimum of five additional characterization samples will be advanced to delineate arsenic if the

resampled W Wall 13 Ft location exceeds 125% of the maximum arsenic concentration observed in the background characterization samples.

### 5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



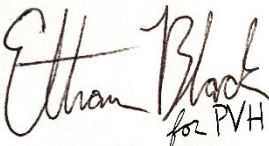
2/13/24

Date \_\_\_\_\_

\_\_\_\_\_  
Ethan D. Black, P.G.

Geologist

Reviewed by:



2/13/24

Date \_\_\_\_\_

\_\_\_\_\_  
Paul V. Henehan, P.E.

Senior Consultant

## TABLES

**TABLE 1**  
**SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**BALBOA C 20-9X, 23, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-022**

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	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**		
Overburden	11/21/2023	Grab	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<0.50	<50	<50
N Wall 13 Ft	11/21/2023	13	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<0.50	<50	<50
S Wall 13 Ft	11/21/2023	13	<0.002	<0.005	0.35	0.76	<b>4.3</b>	<b>0.55</b>	<b>0.14</b>	<b>50</b>	<b>680</b>	<50
Floor 14 Ft	11/21/2023	14	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<0.50	<50	<50
SS-E 13 Ft	11/22/2023	13	<b>0.011</b>	<0.005	0.36	6.50	<b>6.8</b>	<b>3.5</b>	<b>0.074</b>	51	310	<50
SS-W 13 Ft	11/22/2023	13	<0.002	<0.005	<0.005	<0.010	<0.005	<b>0.44</b>	<0.0038	15	<50	<50
S2 Wall 13 Ft	11/27/2023	13	<0.002	<0.005	0.47	2.0	<b>4.2</b>	<0.005	<b>0.31</b>	<b>78</b>	<b>1500</b>	<b>91</b>
E Wall 13 Ft	11/27/2023	13	<0.002	<0.005	0.18	0.56	<b>1.9</b>	<0.005	<b>0.094</b>	32	350	<50
W Wall 13 Ft	11/27/2023	13	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<0.50	<50	<50
E2 WALL 13FT	11/28/2023	13	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	130	<50
FLOOR 14FT	11/28/2023	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
NE WALL 13FT	11/28/2023	13	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SW WALL 13FT	11/28/2023	13	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SE Wall 13FT	11/29/2023	13	<0.0020	<0.0050	0.01	<0.010	<0.0050	<b>5.70</b>	<0.0038	25	300	<50
S3 Wall 13 Ft	11/30/2023	13	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	55	<50
S-E Wall 13 Ft	11/30/2023	13	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S-W Wall 13 Ft	11/30/2023	13	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SE Floor 14 Ft	11/30/2023	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
Backfill	11/30/2023	Grab	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

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

Green highlighted cells indicate soil removed via excavation

\* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
BALBOA C 20-9X, 23, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C023-022

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
Overburden	11/21/2023	Grab	<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
N Wall 13 Ft	11/21/2023	13	<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
S Wall 13 Ft	11/21/2023	13	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.342</b>	<b>0.835</b>
Floor 14 Ft	11/21/2023	14	<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
SS-E 13 Ft	11/22/2023	13	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0173	<0.00500	<0.00500	<b>0.0844</b>	<b>0.456</b>
SS-W 13 Ft	11/22/2023	13	<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	<b>0.0856</b>
S2 Wall 13 Ft	11/27/2023	13	<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
E Wall 13 Ft	11/27/2023	13	<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
W Wall 13 Ft	11/27/2023	13	<0.00500	0.0166	<0.00500	<0.00500	<0.00500	<0.00500	0.0139	<0.00500	<0.00500	<0.00500	<0.00500	0.00957	0.0057	<0.00500
E2 WALL 13FT	11/28/2023	13	0.0055	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.023</b>	<b>0.051</b>
FLOOR 14FT	11/28/2023	14	<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
NE WALL 13FT	11/28/2023	13	<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
SW WALL 13FT	11/28/2023	13	<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
SE Wall 13FT	11/29/2023	13	0.025	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0222	<0.00500	<0.00500	<b>0.244</b>	<b>0.575</b>
S3 Wall 13 Ft	11/30/2023	13	<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
S-E Wall 13 Ft	11/30/2023	13	<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
S-W Wall 13 Ft	11/30/2023	13	<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
SE Floor 14 Ft	11/30/2023	14	<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
Backfill	11/30/2023	Grab	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the ECMC Table 915-1 concentrations

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

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Green highlighted cells indicate soil removed via excavation

**TABLE 3**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE ENERGY INC.**  
**BALBOA C 20-9X, 23, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-022**

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Overburden	11/21/2023	Grab	7.95	0.337	0.225	<2.00
N Wall 13 Ft	11/21/2023	13	8.02	0.76	4.89	<2.00
S Wall 13 Ft	11/21/2023	13	8.28	1.67	<b>11.5</b>	<2.00
Floor 14 Ft	11/21/2023	14	7.84	1.14	7.39	<2.00
SS-E 13 Ft	11/22/2023	13	<b>9.01</b>	1.02	4.09	<2.00
SS-W 13 Ft	11/22/2023	13	8.29	1.43	4.63	<2.00
S2 Wall 13 Ft	11/27/2023	13	<b>9.08</b>	0.75	2.23	<2.00
E Wall 13 Ft	11/27/2023	13	<b>9.20</b>	0.833	2.47	<2.00
W Wall 13 Ft	11/27/2023	13	8.72	0.294	2.27	<2.00
E2 WALL 13FT	11/28/2023	13	8.05	0.763	6.81	<2.00
FLOOR 14FT	11/28/2023	14	8.62	1.19	7.65	<2.00
NE WALL 13FT	11/28/2023	13	8.56	0.62	1.31	<2.00
SW WALL 13FT	11/28/2023	13	8.64	0.487	4.95	<2.00
SE Wall 13FT	11/29/2023	13	8.29	2.34	5.25	<2.00
S3 WALL 13FT	11/30/2023	13	7.80	2.02	6.04	<2.00
S-E WALL 13FT	11/30/2023	13	8.03	1.47	7.34	<2.00
S-W WALL 13FT	11/30/2023	13	8.06	1.19	7.13	<2.00
SE FLOOR 14FT	11/30/2023	14	7.95	1.14	7.46	<2.00
BACKFILL	11/30/2023	Grab	7.77	0.436	0.789	<2.00
BKG 1 13FT	11/30/2023	13	8.16	2.63	<b>6.63</b>	<2.00
BKG 1 14FT	11/30/2023	14	<b>8.32</b>	0.904	4.84	<2.00
BKG 2 13FT	11/30/2023	13	8.02	2.3	<b>6.99</b>	<2.00
BKG 2 14FT	11/30/2023	14	7.97	1.93	5.91	<2.00
BKG 3 13FT	11/30/2023	13	<b>8.70</b>	0.879	1.32	<2.00
BKG 3 14FT	11/30/2023	14	<b>8.41</b>	0.42	<b>9.9</b>	<2.00
BKG 4 13FT	11/30/2023	13	8.12	1.39	<b>8.63</b>	<2.00
BKG 4 14FT	11/30/2023	14	<b>8.76</b>	0.504	<b>6.24</b>	<2.00
BKG 5 13FT	11/30/2023	13	<b>8.55</b>	1.1	2.19	<2.00
BKG 5 14FT	11/30/2023	14	8.25	1.35	<b>9.64</b>	<2.00
Max. Background Concentration			<b>8.76</b>	NA	<b>9.90</b>	NA

Bold faced, yellow highlighted values exceed the ECMC Table 915-1 concentrations

Green highlighted cells indicate soil removed via excavation

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

Orange highlighted samples indicate soil exceeding 125% times the maximum background constituent

NA - Not analyzed

**TABLE 4**  
**SUMMARY OF METALS IN SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**BALBOA C 20-9X, 23, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-022**

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
Overburden	11/21/2023	Grab	0.942	49.3	<0.200	<0.30	2.25	5.04	2.2	<0.260	0.0208	8.5
N Wall 13 Ft	11/21/2023	13	2.45	64	<0.200	<0.30	2.9	14.60	2.91	0.306	0.038	14.2
S Wall 13 Ft	11/21/2023	13	1.83	113	0.401	<0.30	4.73	16.4	6.37	0.393	0.0563	22.4
Floor 14 Ft	11/21/2023	14	1.95	21.2	<0.200	<0.30	3.52	11.7	2.47	<0.260	0.0331	19.9
SS-E 13 Ft	11/22/2023	13	2.18	37.7	0.40	<0.30	4.85	15.1	6.57	0.84	0.0491	23.7
SS-W 13 Ft	11/22/2023	13	1.74	46.6	0.32	<0.30	4.45	14.7	5.8	0.60	0.067	19
S2 Wall 13 Ft	11/27/2023	13	<b>3.00</b>	73.1	0.25	<0.30	4.73	7.61	6.25	<0.26	0.0294	25.7
E Wall 13 Ft	11/27/2023	13	<b>4.72</b>	124	0.26	<0.30	7.53	13.4	5.96	<0.26	0.0623	28.9
W Wall 13 Ft	11/27/2023	13	<b>4.72</b>	67.2	0.516	<0.30	6.5	13.6	12.1	<0.26	0.032	31.6
E2 WALL 13FT	11/28/2023	13	0.297	16.1	<0.200	<0.30	1.1	0.9	<0.400	0.302	<0.0200	1.76
FLOOR 14FT	11/28/2023	14	<0.200	0.97	<0.200	<0.30	<0.400	<0.200	<0.400	<0.260	<0.0200	0.476
NE WALL 13FT	11/28/2023	13	1.7	90.9	0.348	<0.30	3.18	16.6	4.74	0.487	0.0802	17
SW WALL 13FT	11/28/2023	13	0.203	3.43	<0.200	<0.30	0.442	0.452	<0.400	0.357	<0.0200	1.1
SE Wall 13FT	11/29/2023	13	1.56	58.1	0.38	<0.30	3.49	13.8	5.05	0.26	0.044	17.1
S3 WALL 13FT	11/30/2023	13	1.75	52.2	0.396	<0.30	4.3	14	4.18	0.495	0.0641	18.2
S-E WALL 13FT	11/30/2023	13	2.07	39.1	0.376	<0.30	4.15	17.9	3.61	0.406	0.0671	19.4
S-W WALL 13FT	11/30/2023	13	2.33	30.6	0.315	<0.30	4.36	17	2.79	0.463	0.0667	15.9
SE FLOOR 14FT	11/30/2023	14	1.67	28.1	0.218	<0.30	2.5	14.1	2.44	0.549	0.0455	13
BACKFILL	11/30/2023	Grab	0.931	53.2	<0.200	<0.30	1.99	5.1	2.17	<0.260	0.0317	8.1
BKG 1 13FT	11/30/2023	13	<b>1.93</b>	<b>119</b>	0.373	<0.30	4.34	12.8	4.3	<b>0.466</b>	0.0522	20.9
BKG 1 14FT	11/30/2023	14	<b>1.57</b>	53.3	0.334	<0.30	2.96	9.26	3.02	<0.260	0.0413	14.4
BKG 2 13FT	11/30/2023	13	<b>1.86</b>	31.9	0.314	<0.30	3.86	<b>16.6</b>	3.04	<b>0.499</b>	0.0685	18.8
BKG 2 14FT	11/30/2023	14	<b>1.49</b>	67.7	<b>0.392</b>	<0.30	3.67	10.2	3.67	<b>0.539</b>	0.0685	15.4
BKG 3 13FT	11/30/2023	13	<b>1.74</b>	<b>103</b>	<b>0.479</b>	<0.30	4.03	<b>17.3</b>	4.95	<b>0.42</b>	0.0741	18.8
BKG 3 14FT	11/30/2023	14	<b>1.87</b>	57.4	0.292	<0.30	2.59	11.3	3.17	<b>0.305</b>	0.0431	14.7
BKG 4 13FT	11/30/2023	13	<b>1.96</b>	33.7	0.284	<0.30	3.43	<b>16.4</b>	2.9	<b>0.493</b>	0.063	16.6
BKG 4 14FT	11/30/2023	14	<b>1.36</b>	28.6	0.248	<0.30	3.07	7.6	2.58	<b>0.268</b>	0.0351	13.9
BKG 5 13FT	11/30/2023	13	<b>1.75</b>	<b>141</b>	0.368	<0.30	3.59	13.1	3.18	<b>0.823</b>	0.0584	15.7
BKG 5 14FT	11/30/2023	14	<b>2.07</b>	44.5	0.36	<0.30	2.49	<b>15.3</b>	3.06	<b>0.588</b>	0.043	15.3
Max. Background Concentration			<b>2.1</b>	<b>141</b>	<b>0.5</b>	NA	NA	<b>17</b>	NA	<b>0.8</b>	NA	NA
125% Max. Background Concentration			<b>2.6</b>	<b>176</b>	<b>0.6</b>	NA	NA	<b>22</b>	NA	<b>1.0</b>	NA	NA

Bold faced values exceed the ECMC Table 915-1 concentrations

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

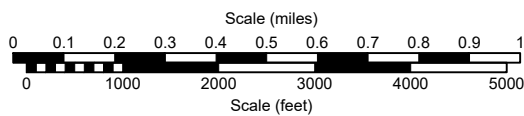
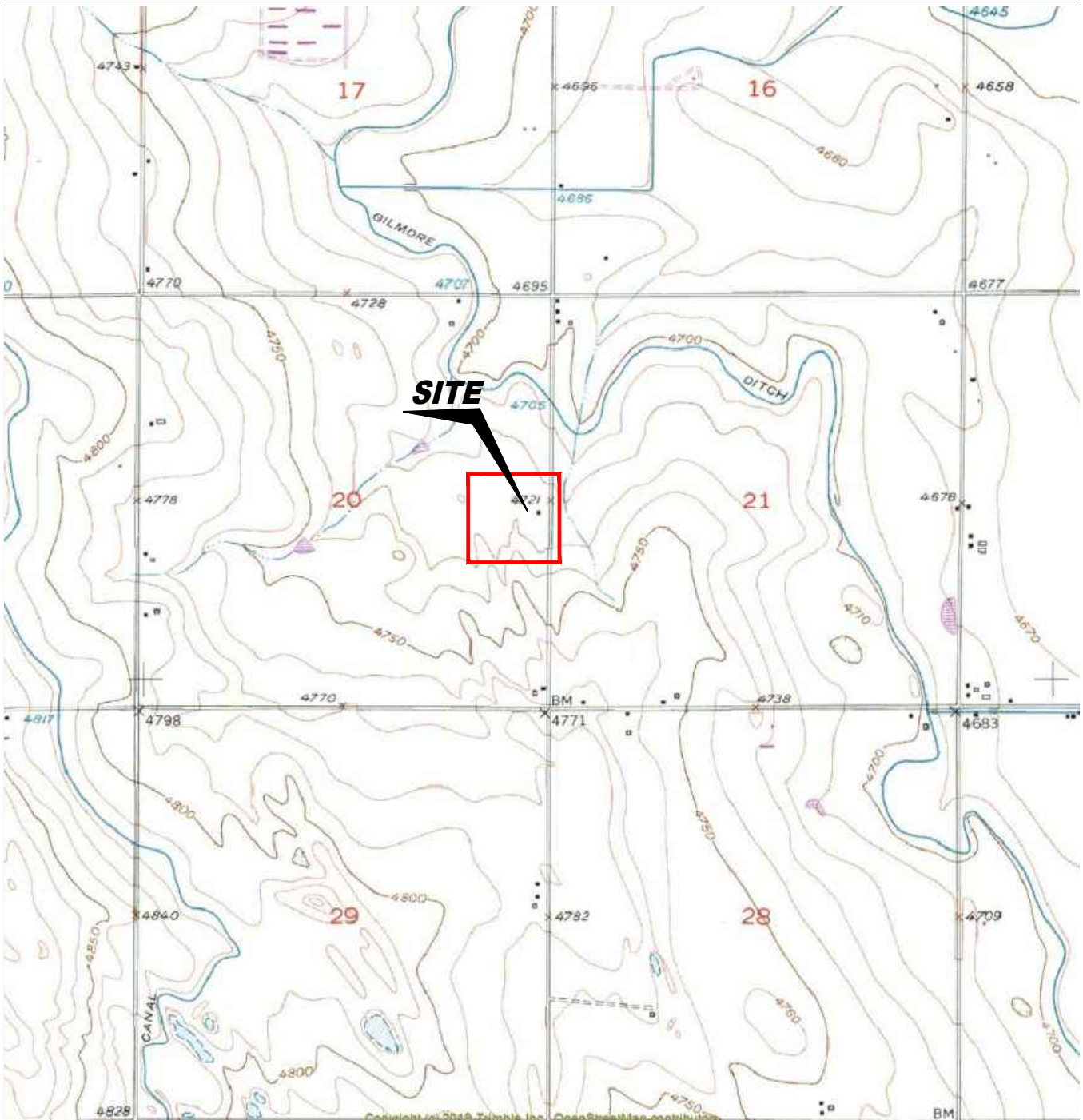
\* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

Orange highlighted samples indicate soil exceeding 125% times the maximum background constituent

NA - Not analyzed

## FIGURES



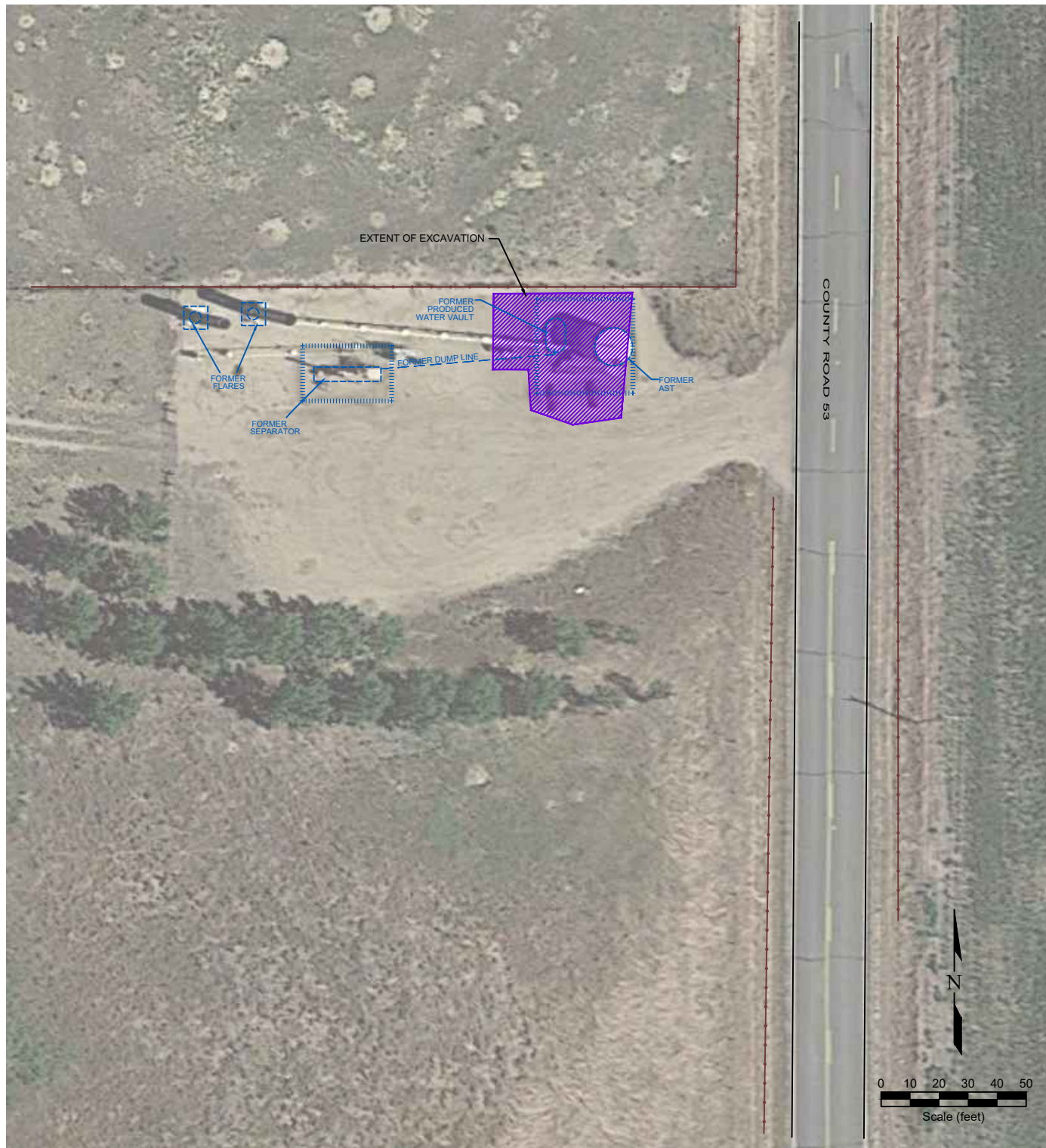
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**Noble Energy, Inc. ~ Balboa C 20-9X**  
 NESE Sec. 20, T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.295933°, -104.565613°

Project # <b>C023-022</b>	Facility # <b>450395</b>	Remediation # <b>24048</b>
Date <b>1/17/24</b>	Reviewed By <b>EB</b>	Filename <b>23022TE</b>





**LEGEND**

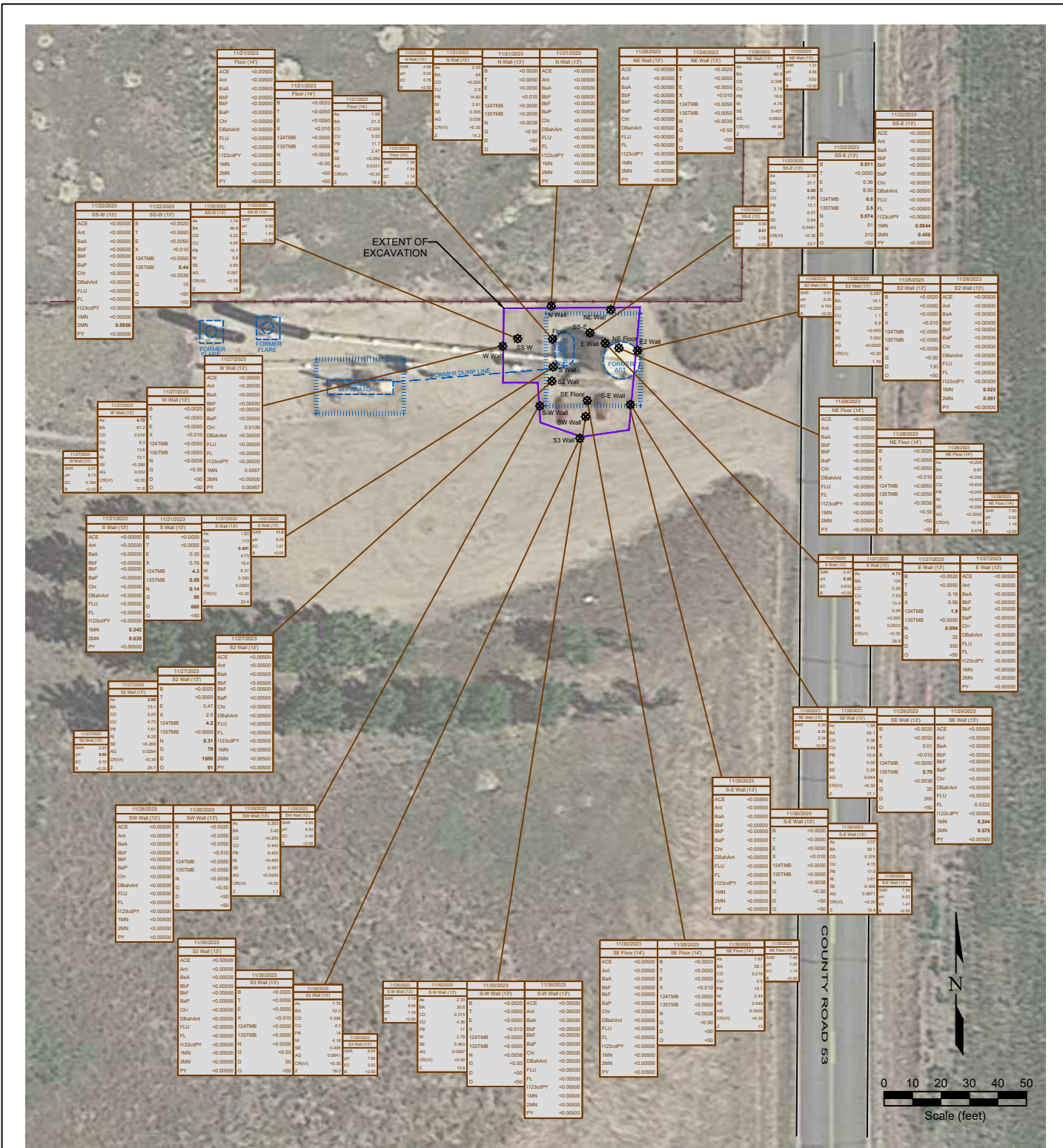
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- AREA EXCAVATED
- CONTAINMENT WALL
- FENCE LINE
- DUMP LINE
- EXTENT OF EXCAVATION

**Figure 2  
SITE MAP**

**Noble Energy, Inc. ~ Balboa C 20-9X**  
 NESE Sec. 20, T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.295933°, -104.565613°

Project No. <b>C023-022</b>	Facility # <b>450395</b>	Remediation # <b>24048</b>
Date <b>1/17/24</b>	Reviewed By <b>EB</b>	Filename <b>23022QE</b>





**LEGEND**

- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT WALL
- FENCE LINE
- DUMP LINE
- EXTENT OF EXCAVATION

11292023	11292023	11292023	11292023
DATE SAMPLED	11/29/2023	DATE SAMPLED	11/29/2023
SAMPLE ID and DEPTH (ft)	AST01 (6'P)	SAMPLE ID and DEPTH (ft)	AST01 (6'P)
ACENAPHTHENE (mg/kg)	<0.0050	BENZENE (mg/kg)	<0.0050
ANTHRACENE (mg/kg)	<0.0050	TOLUENE (mg/kg)	<0.0050
BENZO (A) ANTHRACENE (mg/kg)	<0.0050	ETHYLBENZENE (mg/kg)	<0.0050
BENZO (B) FLUORANTHENE (mg/kg)	<0.0050	TOTAL XYLENES (mg/kg)	<0.0050
BENZO (K) FLUORANTHENE (mg/kg)	<0.0050	1,2,4-TRIMETHYLBENZENE (mg/kg)	<0.0050
BENZO (A) PYRENE (mg/kg)	<0.0050	1,3,5-TRIMETHYLBENZENE (mg/kg)	<0.0050
CHRYSENE (mg/kg)	<0.0050	TPH-GRO (mg/kg)	<0.0050
DIBENZ (A,H) ANTHRACENE (mg/kg)	<0.0050	NOT ANALYZED	
FLUORANTHENE (mg/kg)	<0.0050		
FLUORENE (mg/kg)	<0.0050		
INDENO (1,2,3-CD) PYRENE (mg/kg)	<0.0050		
1-METHYLNAPHTHALENE (mg/kg)	<0.0050		
2-METHYLNAPHTHALENE (mg/kg)	<0.0050		
PYRENE (mg/kg)	<0.0050		

11292023	11292023	11292023	11292023
DATE SAMPLED	11/29/2023	DATE SAMPLED	11/29/2023
SAMPLE ID and DEPTH (ft)	AST01 (6'P)	SAMPLE ID and DEPTH (ft)	AST01 (6'P)
ARSENIC (mg/kg)	<0.0050	COPPER (mg/kg)	<0.0050
BARIUM (mg/kg)	<0.0050	LEAD (mg/kg)	<0.0050
CADMIUM (mg/kg)	<0.0050	NICKEL (mg/kg)	<0.0050
CHROMIUM (mg/kg)	<0.0050	SELENIUM (mg/kg)	<0.0050
COPPER (mg/kg)	<0.0050	SILVER (mg/kg)	<0.0050
LEAD (mg/kg)	<0.0050	HEXAVALENT CHROMIUM (mg/kg)	<0.0050
NICKEL (mg/kg)	<0.0050	ZINC (mg/kg)	<0.0050
SELENIUM (mg/kg)	<0.0050		
SILVER (mg/kg)	<0.0050		
HEXAVALENT CHROMIUM (mg/kg)	<0.0050		
ZINC (mg/kg)	<0.0050		

**Figure 3**  
**EXCAVATION SOIL CHEMISTRY MAP**  
 Noble Energy, Inc. ~ Balboa C 20-9X  
 NESE Sec. 20, T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.295933°, -104.565613°

Project No. <b>C023-022</b>	Facility # <b>450395</b>	Remediation # <b>24048</b>
Date <b>1/18/24</b>	Reviewed By <b>EB</b>	Filename <b>23022QE1</b>

**REMONT ENVIRONMENTAL**



**APPENDIX A**

**PHOTO LOG**

**Photo Log**



**Description:**

1 - Balboa C20-9X, 23 excavation, looking W

**Photo Log**



**Description:**

2 - Balboa C20-9X, 23 excavation, N,S,W walls and floor in view

**Photo Log**



**Description:**

3 - Balboa C20-9X, 23 excavation W and SW Wall and floor

**Photo Log**



**Description:**

4 - Balboa C20-9X, 23 excavation, looking W on final day of impact removal

**Photo Log**



**Description:**

5 - Balboa C20-9X, 23 excavation, N and E Wall and floor in view

**Photo Log**



**Description:**

6 - Balboa C20-9X, 23 excavation, looking E

**APPENDIX B**

**LABORATORY DOCUMENTATION**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 08, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Balboa Tank Battery  
Work Order #2311439

Enclosed are the results of analyses for samples received by Summit Scientific on 11/21/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small flourish at the end.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Overburden	2311439-01	Soil	11/21/23 00:00	11/21/23 16:30
N Wall 13FT	2311439-02	Soil	11/21/23 00:00	11/21/23 16:30
S Wall 13FT	2311439-03	Soil	11/21/23 00:00	11/21/23 16:30
Floor 14FT	2311439-04	Soil	11/21/23 00:00	11/21/23 16:30

Summit Scientific

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

# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2311439	

<b>Send Data To:</b>		<b>Send Invoice To:</b>	
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: <u>Chercon</u>	
Address: 8305 6th St.,	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: <u>Noble - Bilbao Tank Battery</u>	PO/Billing Codes:	
Sampler Name: Ethan Black	Project Number:	Contact: <u>Dan P.</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	Metals (915-1)	
1	<u>Overburden</u>	<u>11/21/23</u>		<u>2</u>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2	<u>N Wall 13FT</u>	<u>I</u>		<u>I</u>								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
3	<u>S Wall 13FT</u>	<u>I</u>		<u>I</u>								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
4	<u>Floor 14FT</u>	<u>I</u>		<u>I</u>								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>11/21/23 1330</u>	Received by: <u>S2 - North Office</u>	Date/Time: <u>11/21/23 1330</u>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>11/21/23 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/21/23 1630</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: <u>S2</u>	Date/Time: <u>11/21/23 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/21/23 1630</u>	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>12.4</u>	Corrected Temperature: <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2311439

Client: Fremont

Client Project ID: Noble-Balboa Tank Battery

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

Airbill #:

Grid of boxes for shipping method selection

Matrix (Check all that apply)

Air

Box for Air selection

Soil/Solid

Box for Soil/Solid selection

Water

Box for Water selection

Other

Box for Other selection

Temp (°C)

12.4

Thermometer #

1

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

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

AB

Custodian Printed Name

11/21/23

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**Overburden**  
**2311439-01 (Soil)**

Summit Scientific

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0843	11/21/23	11/22/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0421	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0845	11/21/23	11/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.2	81.5 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

**Overburden**  
**2311439-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0848	11/22/23	11/22/23	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: **11/21/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0188	56.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0867	11/22/23	11/23/23	EPA 6020B	

**Total Metals by EPA 6020B**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**Overburden**  
**2311439-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.942	0.200	mg/kg dry	1	BGK0937	11/27/23	11/28/23	EPA 6020B
Barium	49.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.25	0.400	"	"	"	"	"	"
Lead	5.04	0.200	"	"	"	"	"	"
Nickel	2.20	0.400	"	"	"	"	"	"
Silver	0.0208	0.0200	"	"	"	"	"	"
Zinc	8.45	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0885	11/22/23	11/27/23	EPA 7196A	

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

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.1	0.0500	mg/L dry	1	BGK0846	11/21/23	11/27/23	EPA 6020B	
Magnesium	5.47	0.0500	"	"	"	"	"	"	
Sodium	6.01	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.225	0.00100	units	1	BGK1013	11/28/23	11/28/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

**Overburden**  
**2311439-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.5		%	1	BGK0874	11/22/23	11/22/23	Calculation	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BGK0854	11/22/23	11/22/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.337	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

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Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**N Wall 13FT**  
**2311439-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0843	11/21/23	11/22/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0422	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0845	11/21/23	11/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.1	80.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**N Wall 13FT**  
**2311439-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0848	11/22/23	11/22/23	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: **11/21/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0867	11/22/23	11/23/23	EPA 6020B	

**Total Metals by EPA 6020B**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
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Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**N Wall 13FT**  
**2311439-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.45	0.200	mg/kg dry	1	BGK0937	11/27/23	11/28/23	EPA 6020B
Barium	64.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.90	0.400	"	"	"	"	"	"
Lead	14.6	0.200	"	"	"	"	"	"
Nickel	2.91	0.400	"	"	"	"	"	"
Silver	0.0380	0.0200	"	"	"	"	"	"
Zinc	14.2	0.400	"	"	"	"	"	"
Selenium	0.306	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0885	11/22/23	11/27/23	EPA 7196A	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BGK0874	11/22/23	11/22/23	Calculation	

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

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BGK0854	11/22/23	11/22/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.760	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

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Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

**N Wall 13FT**  
**2311439-02 (Soil)**

**Summit Scientific**

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

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


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>18.7</b>	0.0500	mg/L dry	1	BGL0939	11/21/23	12/29/23	EPA 6020B	
<b>Magnesium</b>	<b>4.25</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>90.0</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>4.89</b>	0.00100	units	1	BGL1094	11/28/23	12/29/23	Calculation	

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Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**S Wall 13FT**  
**2311439-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0843	11/21/23	11/22/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.35</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.76</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>4.3</b>	0.050	"	10	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.55</b>	0.0050	"	1	"	"	"	"	
<b>Naphthalene</b>	<b>0.14</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>50</b>	5.0	"	10	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0382	95.6 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0345	86.2 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0470	117 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>680</b>	50	mg/kg	1	BGK0845	11/21/23	11/21/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>ND</b>	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	12.8	102 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

**S Wall 13FT**  
**2311439-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0848	11/22/23	11/22/23	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.342</b>	0.00500	"	"	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>0.835</b>	0.00500	"	"	"	"	"	"	E

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0252	75.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0867	11/22/23	11/23/23	EPA 6020B	

**Total Metals by EPA 6020B**

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

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

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**S Wall 13FT**  
**2311439-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.83	0.200	mg/kg dry	1	BGK0937	11/27/23	11/28/23	EPA 6020B
Barium	113	0.400	"	"	"	"	"	"
Cadmium	0.401	0.200	"	"	"	"	"	"
Copper	4.73	0.400	"	"	"	"	"	"
Lead	16.4	0.200	"	"	"	"	"	"
Nickel	6.37	0.400	"	"	"	"	"	"
Silver	0.0563	0.0200	"	"	"	"	"	"
Zinc	22.4	0.400	"	"	"	"	"	"
Selenium	0.393	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0885	11/22/23	11/27/23	EPA 7196A	

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

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.4	0.0500	mg/L dry	1	BGK0846	11/21/23	11/27/23	EPA 6020B	
Magnesium	16.3	0.0500	"	"	"	"	"	"	
Sodium	275	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.5	0.00100	units	1	BGK1013	11/28/23	11/28/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/21/23 00:00

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

Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

**S Wall 13FT**  
**2311439-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.3	%	1	BGK0874	11/22/23	11/22/23	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

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


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BGK0854	11/22/23	11/22/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.67	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

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Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**Floor 14FT**  
**2311439-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0843	11/21/23	11/22/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0845	11/21/23	11/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.3	82.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
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Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**Floor 14FT**  
**2311439-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0848	11/22/23	11/22/23	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: **11/21/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	62.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0867	11/22/23	11/23/23	EPA 6020B	

**Total Metals by EPA 6020B**

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

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

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**Floor 14FT**  
**2311439-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.95	0.200	mg/kg dry	1	BGK0937	11/27/23	11/28/23	EPA 6020B	
Barium	21.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.52	0.400	"	"	"	"	"	"	
Lead	11.7	0.200	"	"	"	"	"	"	
Nickel	2.47	0.400	"	"	"	"	"	"	
Silver	0.0331	0.0200	"	"	"	"	"	"	
Zinc	19.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0885	11/22/23	11/27/23	EPA 7196A	

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

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.9	0.0500	mg/L dry	1	BGK0846	11/21/23	11/27/23	EPA 6020B	
Magnesium	16.9	0.0500	"	"	"	"	"	"	
Sodium	195	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/21/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.39	0.00100	units	1	BGK1013	11/28/23	11/28/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

**Floor 14FT**  
**2311439-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	BGK0874	11/22/23	11/22/23	Calculation	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BGK0854	11/22/23	11/22/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.14	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BGK0843 - EPA 5030 Soil MS

##### Blank (BGK0843-BLK1)

Prepared: 11/21/23 Analyzed: 11/22/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0432		"	0.0400		108	50-150			
<i>Surrogate: Toluene-d8</i>	0.0405		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0430		"	0.0400		107	50-150			

##### LCS (BGK0843-BS1)

Prepared: 11/21/23 Analyzed: 11/22/23

Benzene	0.116	0.0020	mg/kg	0.100		116	70-130			
Toluene	0.114	0.0050	"	0.100		114	70-130			
Ethylbenzene	0.0987	0.0050	"	0.100		98.7	70-130			
m,p-Xylene	0.194	0.010	"	0.200		97.1	70-130			
o-Xylene	0.0941	0.0050	"	0.100		94.1	70-130			
1,2,4-Trimethylbenzene	0.0968	0.0050	"	0.100		96.8	70-130			
1,3,5-Trimethylbenzene	0.0952	0.0050	"	0.100		95.2	70-130			
Naphthalene	0.101	0.0038	"	0.100		101	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0434		"	0.0400		109	50-150			
<i>Surrogate: Toluene-d8</i>	0.0419		"	0.0400		105	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0419		"	0.0400		105	50-150			

##### Matrix Spike (BGK0843-MS1)

Source: 2311433-21

Prepared: 11/21/23 Analyzed: 11/22/23

Benzene	0.121	0.0020	mg/kg	0.100	ND	121	70-130			
Toluene	0.111	0.0050	"	0.100	ND	111	70-130			
Ethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130			
m,p-Xylene	0.168	0.010	"	0.200	ND	84.2	70-130			
o-Xylene	0.0796	0.0050	"	0.100	ND	79.6	70-130			
1,2,4-Trimethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	70-130			
1,3,5-Trimethylbenzene	0.0846	0.0050	"	0.100	ND	84.6	70-130			
Naphthalene	0.0838	0.0038	"	0.100	ND	83.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0529		"	0.0400		132	50-150			
<i>Surrogate: Toluene-d8</i>	0.0502		"	0.0400		125	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0491		"	0.0400		123	50-150			

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Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BGK0843 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGK0843-MSD1)</b>	<b>Source: 2311433-21</b>			<b>Prepared: 11/21/23 Analyzed: 11/22/23</b>						
Benzene	0.102	0.0020	mg/kg	0.100	ND	102	70-130	16.9	30	
Toluene	0.0955	0.0050	"	0.100	ND	95.5	70-130	15.4	30	
Ethylbenzene	0.0791	0.0050	"	0.100	ND	79.1	70-130	9.53	30	
m,p-Xylene	0.153	0.010	"	0.200	ND	76.5	70-130	9.52	30	
o-Xylene	0.0732	0.0050	"	0.100	ND	73.2	70-130	8.33	30	
1,2,4-Trimethylbenzene	0.0808	0.0050	"	0.100	ND	80.8	70-130	6.57	30	
1,3,5-Trimethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	70-130	1.90	30	
Naphthalene	0.0872	0.0038	"	0.100	ND	87.2	70-130	4.07	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0530</i>		<i>"</i>	<i>0.0400</i>		<i>133</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0512</i>		<i>"</i>	<i>0.0400</i>		<i>128</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0515</i>		<i>"</i>	<i>0.0400</i>		<i>129</i>	<i>50-150</i>			

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Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BGK0845 - EPA 3550A**

**Blank (BGK0845-BLK1)**

Prepared: 11/21/23 Analyzed: 11/22/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	12.0		"	12.5		95.7	30-150			

**LCS (BGK0845-BS1)**

Prepared: 11/21/23 Analyzed: 11/22/23

C10-C28 (DRO)	623	50	mg/kg	500		125	70-130			
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102	30-150			

**Matrix Spike (BGK0845-MS1)**

Source: 2311433-21

Prepared: 11/21/23 Analyzed: 11/22/23

C10-C28 (DRO)	616	50	mg/kg	500	ND	123	70-130			
Surrogate: <i>o</i> -Terphenyl	9.23		"	12.5		73.8	30-150			

**Matrix Spike Dup (BGK0845-MSD1)**

Source: 2311433-21

Prepared: 11/21/23 Analyzed: 11/22/23

C10-C28 (DRO)	548	50	mg/kg	500	ND	110	70-130	11.7	20	
Surrogate: <i>o</i> -Terphenyl	10.1		"	12.5		81.2	30-150			

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Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGK0848 - EPA 5030 Soil MS**

**Blank (BGK0848-BLK1)**

Prepared & Analyzed: 11/22/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0341</i>		"	<i>0.0333</i>		<i>102</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0329</i>		"	<i>0.0333</i>		<i>98.7</i>		<i>40-150</i>		

**LCS (BGK0848-BS1)**

Prepared & Analyzed: 11/22/23

Acenaphthene	0.0275	0.00500	mg/kg	0.0333		82.4		31-137		
Anthracene	0.0302	0.00500	"	0.0333		90.6		30-120		
Benzo (a) anthracene	0.0291	0.00500	"	0.0333		87.3		30-120		
Benzo (a) pyrene	0.0288	0.00500	"	0.0333		86.5		30-120		
Benzo (b) fluoranthene	0.0291	0.00500	"	0.0333		87.3		30-120		
Benzo (k) fluoranthene	0.0296	0.00500	"	0.0333		88.8		30-120		
Chrysene	0.0303	0.00500	"	0.0333		91.0		30-120		
Dibenz (a,h) anthracene	0.0273	0.00500	"	0.0333		81.8		30-120		
Fluoranthene	0.0296	0.00500	"	0.0333		88.8		30-120		
Fluorene	0.0264	0.00500	"	0.0333		79.1		30-120		
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333		53.0		30-120		
Pyrene	0.0307	0.00500	"	0.0333		92.2		35-142		
1-Methylnaphthalene	0.0306	0.00500	"	0.0333		91.7		35-142		
2-Methylnaphthalene	0.0308	0.00500	"	0.0333		92.4		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0305</i>		"	<i>0.0333</i>		<i>91.6</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0286</i>		"	<i>0.0333</i>		<i>85.8</i>		<i>40-150</i>		

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PO Box 1289  
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Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

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**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGK0848 - EPA 5030 Soil MS**

**Matrix Spike (BGK0848-MS1)**

Source: 2311434-01

Prepared & Analyzed: 11/22/23

Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	55.0	31-137		
Anthracene	0.0181	0.00500	"	0.0333	ND	54.3	30-120		
Benzo (a) anthracene	0.0182	0.00500	"	0.0333	ND	54.7	30-120		
Benzo (a) pyrene	0.0174	0.00500	"	0.0333	ND	52.1	30-120		
Benzo (b) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.2	30-120		
Benzo (k) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.5	30-120		
Chrysene	0.0187	0.00500	"	0.0333	ND	56.0	30-120		
Dibenz (a,h) anthracene	0.0168	0.00500	"	0.0333	ND	50.3	30-120		
Fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	30-120		
Fluorene	0.0163	0.00500	"	0.0333	ND	49.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333	ND	51.9	30-120		
Pyrene	0.0190	0.00500	"	0.0333	ND	56.9	35-142		
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.6	15-130		
2-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0161		"	0.0333		48.4	40-150		
Surrogate: Fluoranthene-d10	0.0159		"	0.0333		47.6	40-150		

**Matrix Spike Dup (BGK0848-MSD1)**

Source: 2311434-01

Prepared & Analyzed: 11/22/23

Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.3	31-137	0.484	30
Anthracene	0.0176	0.00500	"	0.0333	ND	52.8	30-120	2.72	30
Benzo (a) anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	3.60	30
Benzo (a) pyrene	0.0166	0.00500	"	0.0333	ND	49.8	30-120	4.51	30
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	30-120	1.87	30
Benzo (k) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	30-120	4.72	30
Chrysene	0.0179	0.00500	"	0.0333	ND	53.7	30-120	4.19	30
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.6	30-120	7.48	30
Fluoranthene	0.0176	0.00500	"	0.0333	ND	52.8	30-120	3.38	30
Fluorene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	3.68	30
Indeno (1,2,3-cd) pyrene	0.0188	0.00500	"	0.0333	ND	56.4	30-120	8.17	30
Pyrene	0.0188	0.00500	"	0.0333	ND	56.5	35-142	0.637	30
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.1	15-130	11.7	50
2-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.6	15-130	8.38	50
Surrogate: 2-Methylnaphthalene-d10	0.0173		"	0.0333		51.9	40-150		
Surrogate: Fluoranthene-d10	0.0165		"	0.0333		49.4	40-150		

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Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

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

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

**Batch BGK0867 - EPA 3050B**

**Blank (BGK0867-BLK1)**

Prepared: 11/22/23 Analyzed: 11/23/23

Boron ND 2.00 mg/L

**LCS (BGK0867-BS1)**

Prepared: 11/22/23 Analyzed: 11/23/23

Boron 4.25 2.00 mg/L 5.00 85.0 80-120

**Duplicate (BGK0867-DUP1)**

Source: 2311332-01

Prepared: 11/22/23 Analyzed: 11/23/23

Boron 0.0663 2.00 mg/L 0.0832 22.7 20 QR-01

**Matrix Spike (BGK0867-MS1)**

Source: 2311332-01

Prepared: 11/22/23 Analyzed: 11/23/23

Boron 4.65 2.00 mg/L 5.00 0.0832 91.3 75-125

**Matrix Spike Dup (BGK0867-MSD1)**

Source: 2311332-01

Prepared: 11/22/23 Analyzed: 11/23/23

Boron 4.25 2.00 mg/L 5.00 0.0832 83.4 75-125 8.95 25

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Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGK0937 - EPA 3050B**

**Blank (BGK0937-BLK1)**

Prepared: 11/27/23 Analyzed: 11/28/23

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

**LCS (BGK0937-BS1)**

Prepared: 11/27/23 Analyzed: 11/28/23

Arsenic	42.1	0.200	mg/kg wet	40.0	105	80-120
Barium	42.9	0.400	"	40.0	107	80-120
Cadmium	2.20	0.200	"	2.00	110	80-120
Copper	41.7	0.400	"	40.0	104	80-120
Lead	21.8	0.200	"	20.0	109	80-120
Nickel	41.4	0.400	"	40.0	103	80-120
Silver	2.15	0.0200	"	2.00	107	80-120
Zinc	43.4	0.400	"	40.0	109	80-120
Selenium	4.20	0.260	"	4.00	105	80-120

**Duplicate (BGK0937-DUP1)**

Source: 2311302-01

Prepared: 11/27/23 Analyzed: 11/28/23

Arsenic	0.711	0.200	mg/kg dry	0.725	2.03	20
Barium	58.8	0.400	"	55.4	5.93	20
Cadmium	0.0908	0.200	"	0.0904	0.473	20
Copper	1.97	0.400	"	1.87	4.93	20
Lead	4.35	0.200	"	3.83	12.8	20
Nickel	1.69	0.400	"	1.63	3.43	20
Silver	0.0253	0.0200	"	0.0210	18.5	20
Zinc	7.05	0.400	"	6.89	2.39	20
Selenium	ND	0.260	"	ND		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 - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGK0937 - EPA 3050B**

**Matrix Spike (BGK0937-MS1)**

Source: 2311302-01

Prepared: 11/27/23 Analyzed: 11/28/23

Arsenic	16.9	0.200	mg/kg dry	42.8	0.725	37.7	75-125				QM-07
Barium	115	0.400	"	42.8	55.4	139	75-125				QM-07
Cadmium	2.50	0.200	"	2.14	0.0904	112	75-125				
Copper	17.9	0.400	"	42.8	1.87	37.4	75-125				QM-07
Lead	25.3	0.200	"	21.4	3.83	100	75-125				
Nickel	17.1	0.400	"	42.8	1.63	36.1	75-125				QM-07
Silver	2.24	0.0200	"	2.14	0.0210	104	75-125				
Zinc	28.6	0.400	"	42.8	6.89	50.8	75-125				QM-07
Selenium	4.66	0.260	"	4.28	ND	109	75-125				

**Matrix Spike Dup (BGK0937-MSD1)**

Source: 2311302-01

Prepared: 11/27/23 Analyzed: 11/28/23

Arsenic	16.7	0.200	mg/kg dry	42.8	0.725	37.3	75-125	0.992	25		QM-07
Barium	107	0.400	"	42.8	55.4	121	75-125	6.58	25		
Cadmium	2.28	0.200	"	2.14	0.0904	102	75-125	9.19	25		
Copper	17.9	0.400	"	42.8	1.87	37.4	75-125	0.0503	25		QM-07
Lead	23.7	0.200	"	21.4	3.83	92.8	75-125	6.47	25		
Nickel	17.2	0.400	"	42.8	1.63	36.3	75-125	0.380	25		QM-07
Silver	2.09	0.0200	"	2.14	0.0210	96.5	75-125	7.05	25		
Zinc	28.9	0.400	"	42.8	6.89	51.5	75-125	0.956	25		QM-07
Selenium	3.75	0.260	"	4.28	ND	87.5	75-125	21.6	25		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGK0885 - 3060A Mod**

**Blank (BGK0885-BLK1)**

Prepared: 11/22/23 Analyzed: 11/27/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BGK0885-BS1)**

Prepared: 11/22/23 Analyzed: 11/27/23

Chromium, Hexavalent 25.0 0.30 mg/kg wet 25.0 100 80-120

**Duplicate (BGK0885-DUP1)**

**Source: 2311312-01**

Prepared: 11/22/23 Analyzed: 11/27/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BGK0885-MS1)**

**Source: 2311312-01**

Prepared: 11/22/23 Analyzed: 11/27/23

Chromium, Hexavalent 26.5 0.30 mg/kg dry 28.6 ND 92.6 75-125

**Matrix Spike Dup (BGK0885-MSD1)**

**Source: 2311312-01**

Prepared: 11/22/23 Analyzed: 11/27/23

Chromium, Hexavalent 26.6 0.30 mg/kg dry 28.6 ND 93.0 75-125 0.431 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

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

**Summit Scientific**

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

**Batch BGK0846 - General Preparation**

**Blank (BGK0846-BLK1)**

Prepared: 11/21/23 Analyzed: 11/27/23

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

**LCS (BGK0846-BS1)**

Prepared: 11/21/23 Analyzed: 11/27/23

Calcium	5.27	0.0500	mg/L wet	5.00	105	70-130
Magnesium	5.29	0.0500	"	5.00	106	70-130
Sodium	5.28	0.0500	"	5.00	106	70-130

**Batch BGL0939 - General Preparation**

**Blank (BGL0939-BLK1)**

Prepared: 12/27/23 Analyzed: 12/29/23

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

**LCS (BGL0939-BS1)**

Prepared: 12/27/23 Analyzed: 12/29/23

Calcium	5.76	0.0500	mg/L wet	5.00	115	70-130
Magnesium	5.16	0.0500	"	5.00	103	70-130
Sodium	5.03	0.0500	"	5.00	101	70-130

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

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

**Summit Scientific**

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

**Batch BGK0874 - General Preparation**

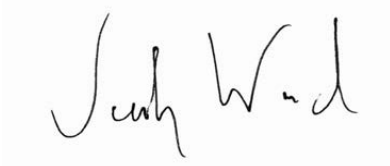
**Duplicate (BGK0874-DUP1)**

**Source: 2311332-01**

Prepared & Analyzed: 11/22/23

% Solids	96.2		%		96.1			0.0467	20	
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Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

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

**Summit Scientific**

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

**Batch BGK0854 - General Preparation**

**LCS (BGK0854-BS1)**

Prepared & Analyzed: 11/22/23

pH 9.07 pH Units 9.18 98.8 95-105

**Duplicate (BGK0854-DUP1)**

Source: 2311346-01

Prepared & Analyzed: 11/22/23

pH 8.07 pH Units 8.07 0.00 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:11

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1090 - General Preparation**

**Blank (BGK1090-BLK1)**

Prepared & Analyzed: 11/29/23

Specific Conductance (EC)      ND      0.0100    mmhos/cm

**LCS (BGK1090-BS1)**

Prepared & Analyzed: 11/29/23

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

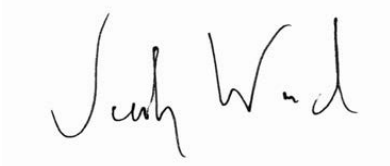
**Duplicate (BGK1090-DUP1)**

**Source: 2311439-01**

Prepared & Analyzed: 11/29/23

Specific Conductance (EC)      0.334      0.0100    mmhos/cm      0.337      0.835      20

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa Tank Battery

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:11

### Notes and Definitions

- QR-01      Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- 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.
- E            The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET        Analyte DETECTED
- ND        Analyte NOT DETECTED at or above the reporting limit
- NR        Not Reported
- dry        Sample results reported on a dry weight basis
- RPD        Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403


303.277.9310

November 30, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Balboa C20-9X  
Work Order #2311482

Enclosed are the results of analyses for samples received by Summit Scientific on 11/22/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-E 13FT	2311482-01	Soil	11/22/23 00:00	11/22/23 16:30
SS-W 13FT	2311482-02	Soil	11/22/23 00:00	11/22/23 16:30

Summit Scientific

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

# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2311482	

<b>Client:</b> Fremont Environmental, Inc.	<b>Send Data To:</b>	<b>Send Invoice To:</b>
<b>Address:</b> 8305 6th St.,	<b>Project Manager:</b> Henahan	<b>Company:</b> Chevron
<b>City/State/Zip:</b> Wellington, CO, 80549	<b>E-Mail:</b> Fremont Distribution List	<b>Project Name/Location:</b>
<b>Phone:</b> 603-477-6907	<b>Project Name:</b> Noble - Balboa C20-9x	<b>AFE#:</b>
<b>Sampler Name:</b> Ethan Black	<b>Project Number:</b>	<b>PO/Billing Codes:</b> UWRWE - A2516-ABN
		<b>Contact:</b> Dan P.

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron		TDS, Chloride, Sulfate
1	SS-E BET	11/22/23		2			X						X	X	X	X	X	
2	SS-W BET	11/22/23		2			X						X	X	X	X	X	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

<b>Relinquished by:</b> Ethan Black	<b>Date/Time:</b> 11/22/23 1400	<b>Received by:</b> S2 - North Office	<b>Date/Time:</b> 11/22/23 1400	<b>TAT Business Days</b>	<b>Field DO</b>	<b>Notes:</b>
				Same Day <input checked="" type="checkbox"/>	Field EC	
<b>Relinquished by:</b> S2	<b>Date/Time:</b> 11/22/23 1630	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 11/22/23 1630	1 Day	Field ORP	
				2 Days	Field pH	
<b>Relinquished by:</b> S2	<b>Date/Time:</b>	<b>Received by:</b>	<b>Date/Time:</b>	3 Days	Field Temp.	
<b>Temperature Upon Receipt:</b> 9.6	<b>Corrected Temperature:</b> 8	<b>IR gun #:</b>	<b>HNO3 lot #:</b>	<input checked="" type="checkbox"/> Field Turb.		

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2311482

Client: Fremont

Client Project ID: Noble - Ballou C20-9X

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

Airbill #: \_\_\_\_\_

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OK
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column - HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Josh  
Custodian Printed Name

11-27-23  
Date/Time

4  
3  
2  
1



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**SS-E 13FT**  
**2311482-01 (Soil)**

Summit Scientific

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>0.011</b>	0.0020		mg/kg	1	BGK0920	11/22/23	11/23/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.36</b>	0.0050		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6.5</b>	1.0		"	100	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>6.8</b>	0.50		"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>3.5</b>	0.50		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.074</b>	0.0038		"	1	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>51</b>	0.50		"	"	"	"	"	"	

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0449	112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0376	94.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0455	114 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>310</b>	50		mg/kg	1	BGK0921	11/22/23	11/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.8	111 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**SS-E 13FT**  
**2311482-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0924	11/27/23	11/28/23	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0173</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0844</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.456</b>	0.00500	"	"	"	"	"	"	E

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0150	45.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0158	47.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0929	11/27/23	11/28/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/22/23 00:00**

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**SS-E 13FT**  
**2311482-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.18	0.200	mg/kg dry	1	BGK0954	11/27/23	11/28/23	EPA 6020B
Barium	37.7	0.400	"	"	"	"	"	"
Cadmium	0.404	0.200	"	"	"	"	"	"
Copper	4.85	0.400	"	"	"	"	"	"
Lead	15.1	0.200	"	"	"	"	"	"
Nickel	6.57	0.400	"	"	"	"	"	"
Silver	0.0491	0.0200	"	"	"	"	"	"
Zinc	23.7	0.400	"	"	"	"	"	"
Selenium	0.842	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/22/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0946	11/27/23	11/28/23	EPA 7196A	

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

Date Sampled: 11/22/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.8	0.0500	mg/L dry	1	BGK0918	11/22/23	11/28/23	EPA 6020B	
Magnesium	25.4	0.0500	"	"	"	"	"	"	
Sodium	146	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/22/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.09	0.00100	units	1	BGK1031	11/28/23	11/28/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/22/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/23 10:22

**SS-E 13FT**  
**2311482-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	82.3	%	1	BGK0923	11/27/23	11/27/23	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.02	0.0100	mmhos/cm	1	BGK0961	11/27/23	11/27/23	EPA 120.1	

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

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.01		pH Units	1	BGK0964	11/27/23	11/27/23	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**SS-W 13FT**  
**2311482-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0920	11/22/23	11/23/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.44</b>	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>15</b>	0.50	"	"	"	"	"	"	

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0409	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0451	113 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0921	11/22/23	11/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.9	87.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**SS-W 13FT**  
**2311482-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0924	11/27/23	11/28/23	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	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0856</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0141	42.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0929	11/27/23	11/28/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/22/23 00:00**

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

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**SS-W 13FT**  
**2311482-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.74	0.200	mg/kg dry	1	BGK0954	11/27/23	11/28/23	EPA 6020B
Barium	46.6	0.400	"	"	"	"	"	"
Cadmium	0.315	0.200	"	"	"	"	"	"
Copper	4.45	0.400	"	"	"	"	"	"
Lead	14.7	0.200	"	"	"	"	"	"
Nickel	5.80	0.400	"	"	"	"	"	"
Silver	0.0670	0.0200	"	"	"	"	"	"
Zinc	19.0	0.400	"	"	"	"	"	"
Selenium	0.600	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/22/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0946	11/27/23	11/28/23	EPA 7196A	

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

Date Sampled: 11/22/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	62.3	0.0500	mg/L dry	1	BGK0918	11/22/23	11/28/23	EPA 6020B	
Magnesium	62.4	0.0500	"	"	"	"	"	"	
Sodium	216	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/22/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.63	0.00100	units	1	BGK1031	11/28/23	11/28/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/22/23 00:00

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

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/23 10:22

**SS-W 13FT**  
**2311482-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

<b>% Solids</b>	<b>81.2</b>	%	1	BGK0923	11/27/23	11/27/23	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/22/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>1.43</b>	0.0100	mmhos/cm	1	BGK0961	11/27/23	11/27/23	EPA 120.1	

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

Date Sampled: **11/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.29</b>		pH Units	1	BGK0964	11/27/23	11/27/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BGK0920 - EPA 5030 Soil MS

##### Blank (BGK0920-BLK1)

Prepared: 11/22/23 Analyzed: 11/23/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0411		"	0.0400		103	50-150			
<i>Surrogate: Toluene-d8</i>	0.0430		"	0.0400		107	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0440		"	0.0400		110	50-150			

##### LCS (BGK0920-BS1)

Prepared: 11/22/23 Analyzed: 11/23/23

Benzene	0.115	0.0020	mg/kg	0.100		115	70-130			
Toluene	0.108	0.0050	"	0.100		108	70-130			
Ethylbenzene	0.0830	0.0050	"	0.100		83.0	70-130			
m,p-Xylene	0.163	0.010	"	0.200		81.4	70-130			
o-Xylene	0.0787	0.0050	"	0.100		78.7	70-130			
1,2,4-Trimethylbenzene	0.0754	0.0050	"	0.100		75.4	70-130			
1,3,5-Trimethylbenzene	0.0798	0.0050	"	0.100		79.8	70-130			
Naphthalene	0.0795	0.0038	"	0.100		79.5	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0408		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0435		"	0.0400		109	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0441		"	0.0400		110	50-150			

##### Matrix Spike (BGK0920-MS1)

Source: 2311473-01

Prepared: 11/22/23 Analyzed: 11/23/23

Benzene	0.102	0.0020	mg/kg	0.100	ND	102	70-130			
Toluene	0.0905	0.0050	"	0.100	ND	90.5	70-130			
Ethylbenzene	0.0938	0.0050	"	0.100	ND	93.8	70-130			
m,p-Xylene	0.180	0.010	"	0.200	ND	90.1	70-130			
o-Xylene	0.0872	0.0050	"	0.100	ND	87.2	70-130			
1,2,4-Trimethylbenzene	0.0806	0.0050	"	0.100	ND	80.6	70-130			
1,3,5-Trimethylbenzene	0.0877	0.0050	"	0.100	ND	87.7	70-130			
Naphthalene	0.0919	0.0038	"	0.100	ND	91.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0428		"	0.0400		107	50-150			
<i>Surrogate: Toluene-d8</i>	0.0437		"	0.0400		109	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0436		"	0.0400		109	50-150			

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/23 10:22

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

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

**Batch BGK0920 - EPA 5030 Soil MS**

Matrix Spike Dup (BGK0920-MSD1)	Source: 2311473-01			Prepared: 11/22/23 Analyzed: 11/23/23					
Benzene	0.0906	0.0020	mg/kg	0.100	ND	90.6	70-130	11.3	30
Toluene	0.0797	0.0050	"	0.100	ND	79.7	70-130	12.7	30
Ethylbenzene	0.0886	0.0050	"	0.100	ND	88.6	70-130	5.69	30
m,p-Xylene	0.174	0.010	"	0.200	ND	86.8	70-130	3.75	30
o-Xylene	0.0832	0.0050	"	0.100	ND	83.2	70-130	4.58	30
1,2,4-Trimethylbenzene	0.0805	0.0050	"	0.100	ND	80.5	70-130	0.0373	30
1,3,5-Trimethylbenzene	0.0863	0.0050	"	0.100	ND	86.3	70-130	1.66	30
Naphthalene	0.0893	0.0038	"	0.100	ND	89.3	70-130	2.85	30
Surrogate: 1,2-Dichloroethane-d4	0.0446		"	0.0400		112	50-150		
Surrogate: Toluene-d8	0.0440		"	0.0400		110	50-150		
Surrogate: 4-Bromofluorobenzene	0.0444		"	0.0400		111	50-150		

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 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/23 10:22

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BGK0921 - EPA 3550A**

**Blank (BGK0921-BLK1)**

Prepared: 11/22/23 Analyzed: 11/23/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	16.9		"	12.5		135		30-150			

**LCS (BGK0921-BS1)**

Prepared: 11/22/23 Analyzed: 11/23/23

C10-C28 (DRO)	554	50	mg/kg	500		111		70-130			
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5		118		30-150			

**Matrix Spike (BGK0921-MS1)**

Source: 2311473-01

Prepared: 11/22/23 Analyzed: 11/23/23

C10-C28 (DRO)	573	50	mg/kg	500	26.2	109		70-130			
Surrogate: <i>o</i> -Terphenyl	11.7		"	12.5		93.8		30-150			

**Matrix Spike Dup (BGK0921-MSD1)**

Source: 2311473-01

Prepared: 11/22/23 Analyzed: 11/23/23

C10-C28 (DRO)	483	50	mg/kg	500	26.2	91.4		70-130	17.0	20	
Surrogate: <i>o</i> -Terphenyl	10.7		"	12.5		85.5		30-150			

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGK0924 - EPA 5030 Soil MS**

**Blank (BGK0924-BLK1)**

Prepared & Analyzed: 11/27/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0282</i>		"	<i>0.0333</i>		<i>84.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0363</i>		"	<i>0.0333</i>		<i>109</i>	<i>40-150</i>			

**LCS (BGK0924-BS1)**

Prepared & Analyzed: 11/27/23

Acenaphthene	0.0305	0.00500	mg/kg	0.0333		91.4	31-137			
Anthracene	0.0301	0.00500	"	0.0333		90.3	30-120			
Benzo (a) anthracene	0.0281	0.00500	"	0.0333		84.4	30-120			
Benzo (a) pyrene	0.0287	0.00500	"	0.0333		86.0	30-120			
Benzo (b) fluoranthene	0.0293	0.00500	"	0.0333		87.8	30-120			
Benzo (k) fluoranthene	0.0318	0.00500	"	0.0333		95.5	30-120			
Chrysene	0.0311	0.00500	"	0.0333		93.4	30-120			
Dibenz (a,h) anthracene	0.0255	0.00500	"	0.0333		76.4	30-120			
Fluoranthene	0.0301	0.00500	"	0.0333		90.3	30-120			
Fluorene	0.0305	0.00500	"	0.0333		91.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0315	0.00500	"	0.0333		94.5	30-120			
Pyrene	0.0324	0.00500	"	0.0333		97.2	35-142			
1-Methylnaphthalene	0.0268	0.00500	"	0.0333		80.4	35-142			
2-Methylnaphthalene	0.0349	0.00500	"	0.0333		105	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0276</i>		"	<i>0.0333</i>		<i>82.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0304</i>		"	<i>0.0333</i>		<i>91.3</i>	<i>40-150</i>			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGK0924 - EPA 5030 Soil MS**

**Matrix Spike (BGK0924-MS1)**

Source: 2311460-01

Prepared & Analyzed: 11/27/23

Acenaphthene	0.0355	0.00500	mg/kg	0.0333	ND	107	31-137			
Anthracene	0.0288	0.00500	"	0.0333	ND	86.5	30-120			
Benzo (a) anthracene	0.0233	0.00500	"	0.0333	ND	70.0	30-120			
Benzo (a) pyrene	0.0316	0.00500	"	0.0333	ND	94.8	30-120			
Benzo (b) fluoranthene	0.0330	0.00500	"	0.0333	ND	99.1	30-120			
Benzo (k) fluoranthene	0.0324	0.00500	"	0.0333	ND	97.3	30-120			
Chrysene	0.0355	0.00500	"	0.0333	ND	107	30-120			
Dibenz (a,h) anthracene	0.0235	0.00500	"	0.0333	ND	70.4	30-120			
Fluoranthene	0.0290	0.00500	"	0.0333	ND	87.0	30-120			
Fluorene	0.0372	0.00500	"	0.0333	ND	112	30-120			
Indeno (1,2,3-cd) pyrene	0.0286	0.00500	"	0.0333	ND	85.8	30-120			
Pyrene	0.0346	0.00500	"	0.0333	ND	104	35-142			
1-Methylnaphthalene	0.0248	0.00500	"	0.0333	ND	74.4	15-130			
2-Methylnaphthalene	0.0380	0.00500	"	0.0333	ND	114	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0246		"	0.0333		73.7	40-150			
Surrogate: Fluoranthene-d10	0.0303		"	0.0333		90.8	40-150			

**Matrix Spike Dup (BGK0924-MSD1)**

Source: 2311460-01

Prepared & Analyzed: 11/27/23

Acenaphthene	0.0227	0.00500	mg/kg	0.0333	ND	68.0	31-137	44.2	30	QR-02
Anthracene	0.0199	0.00500	"	0.0333	ND	59.6	30-120	36.9	30	QR-02
Benzo (a) anthracene	0.0145	0.00500	"	0.0333	ND	43.6	30-120	46.6	30	QR-02
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	37.4	30	QR-02
Benzo (b) fluoranthene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	44.6	30	QR-02
Benzo (k) fluoranthene	0.0210	0.00500	"	0.0333	ND	63.1	30-120	42.7	30	QR-02
Chrysene	0.0219	0.00500	"	0.0333	ND	65.8	30-120	47.4	30	QR-02
Dibenz (a,h) anthracene	0.0178	0.00500	"	0.0333	ND	53.5	30-120	27.3	30	
Fluoranthene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	34.3	30	QR-02
Fluorene	0.0280	0.00500	"	0.0333	ND	84.0	30-120	28.2	30	
Indeno (1,2,3-cd) pyrene	0.0208	0.00500	"	0.0333	ND	62.5	30-120	31.5	30	QR-02
Pyrene	0.0277	0.00500	"	0.0333	ND	83.1	35-142	22.2	30	
1-Methylnaphthalene	0.0256	0.00500	"	0.0333	ND	76.9	15-130	3.36	50	
2-Methylnaphthalene	0.0390	0.00500	"	0.0333	ND	117	15-130	2.67	50	
Surrogate: 2-Methylnaphthalene-d10	0.0183		"	0.0333		54.9	40-150			
Surrogate: Fluoranthene-d10	0.0215		"	0.0333		64.4	40-150			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/23 10:22

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

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

**Batch BGK0929 - EPA 3050B**

**Blank (BGK0929-BLK1)**

Prepared & Analyzed: 11/27/23

Boron ND 2.00 mg/L

**LCS (BGK0929-BS1)**

Prepared & Analyzed: 11/27/23

Boron 5.19 2.00 mg/L 5.00 104 80-120

**Duplicate (BGK0929-DUP1)**

Source: 2311481-01

Prepared & Analyzed: 11/27/23

Boron 0.811 2.00 mg/L 0.711 13.2 20

**Matrix Spike (BGK0929-MS1)**

Source: 2311481-01

Prepared & Analyzed: 11/27/23

Boron 6.07 2.00 mg/L 5.00 0.711 107 75-125

**Matrix Spike Dup (BGK0929-MSD1)**

Source: 2311481-01

Prepared & Analyzed: 11/27/23

Boron 6.12 2.00 mg/L 5.00 0.711 108 75-125 0.768 25

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGK0954 - EPA 3050B**

**Blank (BGK0954-BLK1)**

Prepared: 11/27/23 Analyzed: 11/28/23

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

**LCS (BGK0954-BS1)**

Prepared: 11/27/23 Analyzed: 11/28/23

Arsenic	42.6	0.200	mg/kg wet	40.0	107	80-120
Barium	37.4	0.400	"	40.0	93.5	80-120
Cadmium	1.88	0.200	"	2.00	94.2	80-120
Copper	41.9	0.400	"	40.0	105	80-120
Lead	18.1	0.200	"	20.0	90.3	80-120
Nickel	43.2	0.400	"	40.0	108	80-120
Silver	1.84	0.0200	"	2.00	91.9	80-120
Zinc	41.6	0.400	"	40.0	104	80-120
Selenium	4.29	0.260	"	4.00	107	80-120

**Duplicate (BGK0954-DUP1)**

Source: 2311438-01

Prepared: 11/27/23 Analyzed: 11/28/23

Arsenic	0.629	0.200	mg/kg dry	0.771	20.3	20	QR-01
Barium	50.3	0.400	"	67.4	29.1	20	QR-04
Cadmium	1.33	0.200	"	1.60	19.0	20	
Copper	3.74	0.400	"	4.21	11.9	20	
Lead	8.54	0.200	"	14.0	48.2	20	QR-04
Nickel	4.55	0.400	"	7.02	42.7	20	QR-04
Silver	0.106	0.0200	"	0.156	37.8	20	QR-01
Zinc	14.7	0.400	"	20.6	33.4	20	QR-04
Selenium	0.687	0.260	"	0.931	30.1	20	QR-01

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGK0954 - EPA 3050B**

**Matrix Spike (BGK0954-MS1)**

Source: 2311438-01

Prepared: 11/27/23 Analyzed: 11/28/23

Arsenic	9.84	0.200	mg/kg dry	48.0	0.771	18.9	75-125				QM-07
Barium	192	0.400	"	48.0	67.4	260	75-125				QM-07
Cadmium	5.36	0.200	"	2.40	1.60	156	75-125				QM-07
Copper	13.1	0.400	"	48.0	4.21	18.5	75-125				QM-07
Lead	36.1	0.200	"	24.0	14.0	92.1	75-125				
Nickel	16.9	0.400	"	48.0	7.02	20.5	75-125				QM-07
Silver	2.42	0.0200	"	2.40	0.156	94.4	75-125				
Zinc	22.9	0.400	"	48.0	20.6	4.89	75-125				QM-07
Selenium	10.6	0.260	"	4.80	0.931	201	75-125				QM-07

**Matrix Spike Dup (BGK0954-MSD1)**

Source: 2311438-01

Prepared: 11/27/23 Analyzed: 11/28/23

Arsenic	9.85	0.200	mg/kg dry	48.0	0.771	18.9	75-125	0.166	25		QM-07
Barium	192	0.400	"	48.0	67.4	258	75-125	0.472	25		QM-07
Cadmium	5.31	0.200	"	2.40	1.60	155	75-125	0.882	25		QM-07
Copper	13.1	0.400	"	48.0	4.21	18.5	75-125	0.213	25		QM-07
Lead	35.6	0.200	"	24.0	14.0	89.9	75-125	1.43	25		
Nickel	16.9	0.400	"	48.0	7.02	20.6	75-125	0.227	25		QM-07
Silver	2.40	0.0200	"	2.40	0.156	93.5	75-125	0.936	25		
Zinc	23.0	0.400	"	48.0	20.6	5.14	75-125	0.533	25		QM-07
Selenium	12.3	0.260	"	4.80	0.931	236	75-125	14.6	25		QM-07

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/23 10:22

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGK0946 - 3060A Mod**

**Blank (BGK0946-BLK1)**

Prepared: 11/27/23 Analyzed: 11/28/23

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BGK0946-BS1)**

Prepared: 11/27/23 Analyzed: 11/28/23

Chromium, Hexavalent      27.4      0.30 mg/kg wet      25.0      110      80-120

**Duplicate (BGK0946-DUP1)**

**Source: 2311197-03**

Prepared: 11/27/23 Analyzed: 11/28/23

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BGK0946-MS1)**

**Source: 2311197-03**

Prepared: 11/27/23 Analyzed: 11/28/23

Chromium, Hexavalent      27.8      0.30 mg/kg dry      26.9      ND      103      75-125

**Matrix Spike Dup (BGK0946-MSD1)**

**Source: 2311197-03**

Prepared: 11/27/23 Analyzed: 11/28/23

Chromium, Hexavalent      27.3      0.30 mg/kg dry      26.9      ND      101      75-125      1.95      20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/23 10:22

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

**Summit Scientific**

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

**Batch BGK0918 - General Preparation**

**Blank (BGK0918-BLK1)**

Prepared: 11/22/23 Analyzed: 11/28/23

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

**LCS (BGK0918-BS1)**

Prepared: 11/22/23 Analyzed: 11/28/23

Calcium	4.63	0.0500	mg/L wet	5.00	92.6	70-130				
Magnesium	5.79	0.0500	"	5.00	116	70-130				
Sodium	5.89	0.0500	"	5.00	118	70-130				

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/23 10:22

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

**Summit Scientific**

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

**Batch BGK0923 - General Preparation**


**Duplicate (BGK0923-DUP1)**

**Source: 2311481-01**

**Prepared & Analyzed: 11/27/23**

% Solids	96.2		%		96.3			0.0989	20	
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Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/23 10:22

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

**Summit Scientific**

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

**Batch BGK0961 - General Preparation**

**Blank (BGK0961-BLK1)**

Prepared & Analyzed: 11/27/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGK0961-BS1)**

Prepared & Analyzed: 11/27/23

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.5 95-105

**Duplicate (BGK0961-DUP1)**

Source: 2311460-01

Prepared & Analyzed: 11/27/23

Specific Conductance (EC) 5.63 0.0100 mmhos/cm 5.76 2.18 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/23 10:22

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

**Summit Scientific**

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

**Batch BGK0964 - General Preparation**

**LCS (BGK0964-BS1)**

Prepared & Analyzed: 11/27/23

pH 9.26 pH Units 9.18 101 95-105

**Duplicate (BGK0964-DUP1)**

Source: 2311460-01

Prepared & Analyzed: 11/27/23

pH 9.19 pH Units 9.21 0.217 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/30/23 10:22

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- 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.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 08, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Balboa C20-9X  
Work Order #2311532

Enclosed are the results of analyses for samples received by Summit Scientific on 11/27/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small "nd" at the end of the last name.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S2 Wall 13FT	2311532-01	Soil	11/27/23 00:00	11/27/23 16:30
E Wall 13FT	2311532-02	Soil	11/27/23 00:00	11/27/23 16:30
W Wall 13FT	2311532-03	Soil	11/27/23 00:00	11/27/23 16:30

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page	of
2311532		

<b>Send Data To:</b>		<b>Send Invoice To:</b>	
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: <del>Mesa</del> Chevron	
Address: 8305 6th St.,	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: Noble - Balboa C20-9x	PO/Billing Codes:	
Sampler Name: Ethan Black	Project Number:	Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested					Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	
1	S2 Wall 13FT	11/27/23		2			X			X		X	X	X	X	X		
2	E Wall 13FT	I		I			I		I			X	X	X	X	X		
3	W Wall 13FT	I		I			I		I			X	X	X	X	X		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <i>Ethan Black</i>	Date/Time: 11/27/23 1400	Received by: S2 - North Office	Date/Time: 11/27/23 1400	TAT Business Days	Field DO	Notes: Please send PAH data as soon as available
Relinquished by:	Date/Time: 11/27/23 1630	Received by: <i>[Signature]</i>	Date/Time: 11/27/23 1630	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 94	Corrected Temperature: 9	IR gun #:	HNO3 lot #:	Standard	Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2311532

Client: Fremont

Client Project ID: Nikke-Balboa C20-9X

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

Airbill #: \_\_\_\_\_

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

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

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

AS

Custodian Printed Name

11/27/23  
Date/Time

11/27/23



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**S2 Wall 13FT**  
**2311532-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0988	11/27/23	11/27/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.47</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2.0</b>	0.010	"	"	"	"	"	"	E
<b>1,2,4-Trimethylbenzene</b>	<b>4.2</b>	0.0050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.31</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>78</b>	0.50	"	"	"	"	"	"	

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0460	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0344	86.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0957	239 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>1500</b>	50	mg/kg	1	BGK0987	11/27/23	11/27/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>91</b>	50	"	"	"	"	"	"	

Date Sampled: **11/27/23 00:00**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**S2 Wall 13FT**  
**2311532-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK1000	11/28/23	11/29/23	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: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0148	44.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1007	11/28/23	11/29/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/27/23 00:00**

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

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**S2 Wall 13FT**  
**2311532-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.00	0.200	mg/kg dry	1	BGK1132	11/30/23	12/01/23	EPA 6020B
Barium	73.1	0.400	"	"	"	"	"	"
Cadmium	0.249	0.200	"	"	"	"	"	"
Copper	4.73	0.400	"	"	"	"	"	"
Lead	7.61	0.200	"	"	"	"	"	"
Nickel	6.25	0.400	"	"	"	"	"	"
Silver	0.0294	0.0200	"	"	"	"	"	"
Zinc	25.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1022	11/28/23	11/29/23	EPA 7196A	

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

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	221	0.0500	mg/L dry	1	BGK0989	11/27/23	11/30/23	EPA 6020B	
Magnesium	82.3	0.0500	"	"	"	"	"	"	
Sodium	153	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.23	0.00100	units	1	BGK1126	11/30/23	11/30/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

**S2 Wall 13FT**  
**2311532-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	84.5	%	1	BGK1003	11/28/23	11/29/23	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.08		pH Units	1	BGK0997	11/28/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.750	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**E Wall 13FT**  
**2311532-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0988	11/27/23	11/27/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.18</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.56</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>1.9</b>	0.0050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.094</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>32</b>	0.50	"	"	"	"	"	"	

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0461	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0382	95.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0729	182 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>350</b>	50	mg/kg	1	BGK0987	11/27/23	11/27/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.4	108 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**E Wall 13FT**  
**2311532-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK1000	11/28/23	11/29/23	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: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0167	50.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1007	11/28/23	11/29/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/27/23 00:00**

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

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**E Wall 13FT  
2311532-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.72	0.200	mg/kg dry	1	BGK1132	11/30/23	12/01/23	EPA 6020B	
Barium	124	0.400	"	"	"	"	"	"	
Cadmium	0.264	0.200	"	"	"	"	"	"	
Copper	7.53	0.400	"	"	"	"	"	"	
Lead	13.4	0.200	"	"	"	"	"	"	
Nickel	5.96	0.400	"	"	"	"	"	"	
Silver	0.0623	0.0200	"	"	"	"	"	"	
Zinc	28.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1022	11/28/23	11/29/23	EPA 7196A	

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

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	252	0.0500	mg/L dry	1	BGK0989	11/27/23	11/30/23	EPA 6020B	
Magnesium	132	0.0500	"	"	"	"	"	"	
Sodium	194	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.47	0.00100	units	1	BGK1126	11/30/23	11/30/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

**E Wall 13FT  
 2311532-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.6	%	1	BGK1003	11/28/23	11/29/23	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/27/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.20		pH Units	1	BGK0997	11/28/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.833	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**W Wall 13FT**  
**2311532-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0988	11/27/23	11/27/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0439	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0433	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0430	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0987	11/27/23	11/27/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.7	93.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Balboa C20-9X  
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Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**W Wall 13FT**  
**2311532-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK1000	11/28/23	11/29/23	EPA 8270D SIM	
<b>Anthracene</b>	<b>0.0166</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0139</b>	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	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00957</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.00570</b>	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0181	54.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	57.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1007	11/28/23	11/29/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Arsenic</b>	<b>4.72</b>	0.200	mg/kg dry	1	BGK1132	11/30/23	12/01/23	EPA 6020B	

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Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**W Wall 13FT**  
**2311532-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	67.2	0.400	mg/kg dry	1	BGK1132	11/30/23	12/01/23	EPA 6020B	
Cadmium	0.516	0.200	"	"	"	"	"	"	
Copper	6.50	0.400	"	"	"	"	"	"	
Lead	13.6	0.200	"	"	"	"	"	"	
Nickel	12.1	0.400	"	"	"	"	"	"	
Silver	0.0320	0.0200	"	"	"	"	"	"	
Zinc	31.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1022	11/28/23	11/29/23	EPA 7196A	

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

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.5	0.0500	mg/L dry	1	BGK0989	11/27/23	11/30/23	EPA 6020B	
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	44.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.27	0.00100	units	1	BGK1126	11/30/23	11/30/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/27/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BGK1003	11/28/23	11/29/23	Calculation	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

**W Wall 13FT  
 2311532-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Date Sampled: **11/27/23 00:00**

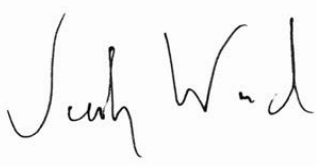
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.72</b>		pH Units	1	BGK0997	11/28/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.294</b>	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

**W Wall 13FT**  
**2311532-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**


Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	ND	0.00500	mg/kg	1	BGL0200	11/28/23	12/07/23	EPA 8270D SIM	

Date Sampled: **11/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0159	47.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.4 %	40-150		"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BGK0988 - EPA 5030 Soil MS

##### Blank (BGK0988-BLK1)

Prepared & Analyzed: 11/27/23

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0388		"	0.0400		97.0	50-150				
<i>Surrogate: Toluene-d8</i>	0.0440		"	0.0400		110	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0452		"	0.0400		113	50-150				

##### LCS (BGK0988-BS1)

Prepared & Analyzed: 11/27/23

Benzene	0.120	0.0020	mg/kg	0.100		120	70-130				
Toluene	0.0908	0.0050	"	0.100		90.8	70-130				
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130				
m,p-Xylene	0.212	0.010	"	0.200		106	70-130				
o-Xylene	0.102	0.0050	"	0.100		102	70-130				
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130				
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130				
Naphthalene	0.0922	0.0038	"	0.100		92.2	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0384		"	0.0400		95.9	50-150				
<i>Surrogate: Toluene-d8</i>	0.0445		"	0.0400		111	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0441		"	0.0400		110	50-150				

##### Matrix Spike (BGK0988-MS1)

Source: 2311532-01

Prepared & Analyzed: 11/27/23

Benzene	0.157	0.0020	mg/kg	0.100	ND	157	70-130			QM-05
Toluene	0.132	0.0050	"	0.100	ND	132	70-130			QM-05
Ethylbenzene	0.499	0.0050	"	0.100	0.473	25.8	70-130			QM-05
m,p-Xylene	1.76	0.010	"	0.200	1.97	NR	70-130			QM-05
o-Xylene	0.0848	0.0050	"	0.100	ND	84.8	70-130			
1,2,4-Trimethylbenzene	2.50	0.0050	"	0.100	4.19	NR	70-130			QM-05
1,3,5-Trimethylbenzene	0.0733	0.0050	"	0.100	ND	73.3	70-130			
Naphthalene	0.337	0.0038	"	0.100	0.309	27.9	70-130			QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0440		"	0.0400		110	50-150			
<i>Surrogate: Toluene-d8</i>	0.0333		"	0.0400		83.3	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0969		"	0.0400		242	50-150			QM-05

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

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

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

**Batch BGK0988 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGK0988-MSD1)</b>	<b>Source: 2311532-01</b>			<b>Prepared &amp; Analyzed: 11/27/23</b>						
Benzene	0.155	0.0020	mg/kg	0.100	ND	155	70-130	1.56	30	QM-05
Toluene	0.132	0.0050	"	0.100	ND	132	70-130	0.136	30	QM-05
Ethylbenzene	0.600	0.0050	"	0.100	0.473	127	70-130	18.4	30	
m,p-Xylene	2.07	0.010	"	0.200	1.97	46.6	70-130	15.8	30	QM-05
o-Xylene	0.0887	0.0050	"	0.100	ND	88.7	70-130	4.53	30	
1,2,4-Trimethylbenzene	2.92	0.0050	"	0.100	4.19	NR	70-130	15.8	30	QM-05
1,3,5-Trimethylbenzene	0.0724	0.0050	"	0.100	ND	72.4	70-130	1.15	30	
Naphthalene	0.408	0.0038	"	0.100	0.309	98.5	70-130	19.0	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0500</i>		<i>"</i>	<i>0.0400</i>		<i>125</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.105</i>		<i>"</i>	<i>0.0400</i>		<i>261</i>	<i>50-150</i>			<i>QM-05</i>

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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BGK0987 - EPA 3550A**

**Blank (BGK0987-BLK1)**

Prepared & Analyzed: 11/27/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5		84.0		30-150		

**LCS (BGK0987-BS1)**

Prepared: 11/27/23 Analyzed: 11/28/23

C10-C28 (DRO)	553	50	mg/kg	500		111		70-130		
Surrogate: <i>o</i> -Terphenyl	17.7		"	12.5		142		30-150		

**Matrix Spike (BGK0987-MS1)**

Source: 2311521-01

Prepared: 11/27/23 Analyzed: 11/28/23

C10-C28 (DRO)	910	50	mg/kg	500	260	130		70-130		
Surrogate: <i>o</i> -Terphenyl	11.4		"	12.5		91.4		30-150		

**Matrix Spike Dup (BGK0987-MSD1)**

Source: 2311521-01

Prepared: 11/27/23 Analyzed: 11/28/23

C10-C28 (DRO)	886	50	mg/kg	500	260	125		70-130	2.62	20
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5		89.9		30-150		

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Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGK1000 - EPA 5030 Soil MS**

**Blank (BGK1000-BLK1)**

Prepared & Analyzed: 11/28/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0281</i>		"	<i>0.0333</i>		<i>84.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0351</i>		"	<i>0.0333</i>		<i>105</i>	<i>40-150</i>			

**LCS (BGK1000-BS1)**

Prepared & Analyzed: 11/28/23

Acenaphthene	0.0269	0.00500	mg/kg	0.0333		80.8	31-137			
Anthracene	0.0318	0.00500	"	0.0333		95.4	30-120			
Benzo (a) anthracene	0.0293	0.00500	"	0.0333		87.8	30-120			
Benzo (a) pyrene	0.0270	0.00500	"	0.0333		81.1	30-120			
Benzo (b) fluoranthene	0.0287	0.00500	"	0.0333		86.1	30-120			
Benzo (k) fluoranthene	0.0309	0.00500	"	0.0333		92.8	30-120			
Chrysene	0.0324	0.00500	"	0.0333		97.2	30-120			
Dibenz (a,h) anthracene	0.0245	0.00500	"	0.0333		73.4	30-120			
Fluoranthene	0.0317	0.00500	"	0.0333		95.1	30-120			
Fluorene	0.0282	0.00500	"	0.0333		84.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0241	0.00500	"	0.0333		72.3	30-120			
Pyrene	0.0329	0.00500	"	0.0333		98.6	35-142			
1-Methylnaphthalene	0.0358	0.00500	"	0.0333		107	35-142			
2-Methylnaphthalene	0.0369	0.00500	"	0.0333		111	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0254</i>		"	<i>0.0333</i>		<i>76.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0314</i>		"	<i>0.0333</i>		<i>94.1</i>	<i>40-150</i>			

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGK1000 - EPA 5030 Soil MS**

**Matrix Spike (BGK1000-MS1)**

Source: 2311431-01

Prepared & Analyzed: 11/28/23

Acenaphthene	0.0137	0.00500	mg/kg	0.0333	ND	41.1	31-137			
Anthracene	0.0157	0.00500	"	0.0333	ND	47.0	30-120			
Benzo (a) anthracene	0.0146	0.00500	"	0.0333	ND	43.9	30-120			
Benzo (a) pyrene	0.0134	0.00500	"	0.0333	ND	40.1	30-120			
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.8	30-120			
Benzo (k) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.6	30-120			
Chrysene	0.0142	0.00500	"	0.0333	ND	42.7	30-120			
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333	ND	40.8	30-120			
Fluoranthene	0.0146	0.00500	"	0.0333	ND	43.9	30-120			
Fluorene	0.0152	0.00500	"	0.0333	ND	45.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0136	0.00500	"	0.0333	ND	40.9	30-120			
Pyrene	0.0151	0.00500	"	0.0333	ND	45.3	35-142			
1-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.5	15-130			
2-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	58.0	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0138</i>		<i>"</i>	<i>0.0333</i>		<i>41.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0152</i>		<i>"</i>	<i>0.0333</i>		<i>45.5</i>	<i>40-150</i>			

**Matrix Spike Dup (BGK1000-MSD1)**

Source: 2311431-01

Prepared & Analyzed: 11/28/23

Acenaphthene	0.0164	0.00500	mg/kg	0.0333	ND	49.3	31-137	18.2	30	
Anthracene	0.0198	0.00500	"	0.0333	ND	59.5	30-120	23.4	30	
Benzo (a) anthracene	0.0194	0.00500	"	0.0333	ND	58.2	30-120	27.9	30	
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.4	30-120	0.728	30	
Benzo (b) fluoranthene	0.0157	0.00500	"	0.0333	ND	47.1	30-120	11.9	30	
Benzo (k) fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	30-120	13.5	30	
Chrysene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	7.24	30	
Dibenz (a,h) anthracene	0.0221	0.00500	"	0.0333	ND	66.4	30-120	47.6	30	QR-02
Fluoranthene	0.0139	0.00500	"	0.0333	ND	41.6	30-120	5.50	30	
Fluorene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	2.37	30	
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333	ND	48.1	30-120	16.2	30	
Pyrene	0.0168	0.00500	"	0.0333	ND	50.4	35-142	10.6	30	
1-Methylnaphthalene	0.0181	0.00500	"	0.0333	ND	54.2	15-130	0.572	50	
2-Methylnaphthalene	0.0159	0.00500	"	0.0333	ND	47.6	15-130	19.6	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0152</i>		<i>"</i>	<i>0.0333</i>		<i>45.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0135</i>		<i>"</i>	<i>0.0333</i>		<i>40.4</i>	<i>40-150</i>			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGL0200 - EPA 5030 Soil MS**

**Blank (BGL0200-BLK1)**

Prepared & Analyzed: 12/06/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0365</i>		<i>"</i>	<i>0.0333</i>	<i>110</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0271</i>		<i>"</i>	<i>0.0333</i>	<i>81.3</i>	<i>40-150</i>				

**LCS (BGL0200-BS1)**

Prepared & Analyzed: 12/06/23

Acenaphthene	0.0156	0.00500	mg/kg	0.0333	46.7	31-137				
Anthracene	0.0191	0.00500	"	0.0333	57.2	30-120				
Benzo (a) anthracene	0.0170	0.00500	"	0.0333	51.1	30-120				
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	46.1	30-120				
Benzo (b) fluoranthene	0.0169	0.00500	"	0.0333	50.8	30-120				
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	52.7	30-120				
Chrysene	0.0193	0.00500	"	0.0333	57.8	30-120				
Dibenz (a,h) anthracene	0.0173	0.00500	"	0.0333	52.0	30-120				
Fluoranthene	0.0187	0.00500	"	0.0333	56.1	30-120				
Fluorene	0.0151	0.00500	"	0.0333	45.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0163	0.00500	"	0.0333	49.0	30-120				
Pyrene	0.0196	0.00500	"	0.0333	58.9	35-142				
1-Methylnaphthalene	0.0195	0.00500	"	0.0333	58.6	35-142				
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	62.1	35-142				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0206</i>		<i>"</i>	<i>0.0333</i>	<i>61.8</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0275</i>		<i>"</i>	<i>0.0333</i>	<i>82.4</i>	<i>40-150</i>				

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGL0200 - EPA 5030 Soil MS**

**Matrix Spike (BGL0200-MS1)**

Source: 2311429-02

Prepared & Analyzed: 12/06/23

Acenaphthene	0.0214	0.00500	mg/kg	0.0333	ND	64.1	31-137			
Anthracene	0.0155	0.00500	"	0.0333	ND	46.5	30-120			
Benzo (a) anthracene	0.0139	0.00500	"	0.0333	ND	41.7	30-120			
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.6	30-120			
Benzo (b) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.3	30-120			
Benzo (k) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.1	30-120			
Chrysene	0.0140	0.00500	"	0.0333	ND	41.9	30-120			
Dibenz (a,h) anthracene	0.0161	0.00500	"	0.0333	ND	48.2	30-120			
Fluoranthene	0.0149	0.00500	"	0.0333	ND	44.6	30-120			
Fluorene	0.0138	0.00500	"	0.0333	ND	41.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333	ND	46.6	30-120			
Pyrene	0.0143	0.00500	"	0.0333	ND	43.0	35-142			
1-Methylnaphthalene	0.0173	0.00500	"	0.0333	ND	51.9	15-130			
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0174		"	0.0333		52.1	40-150			
Surrogate: Fluoranthene-d10	0.0184		"	0.0333		55.1	40-150			

**Matrix Spike Dup (BGL0200-MSD1)**

Source: 2311429-02

Prepared & Analyzed: 12/06/23

Acenaphthene	0.0162	0.00500	mg/kg	0.0333	ND	48.5	31-137	27.8	30
Anthracene	0.0173	0.00500	"	0.0333	ND	51.8	30-120	10.8	30
Benzo (a) anthracene	0.0140	0.00500	"	0.0333	ND	42.0	30-120	0.662	30
Benzo (a) pyrene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	1.25	30
Benzo (b) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	5.19	30
Benzo (k) fluoranthene	0.0138	0.00500	"	0.0333	ND	41.4	30-120	1.47	30
Chrysene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	9.82	30
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.1	30-120	18.2	30
Fluoranthene	0.0142	0.00500	"	0.0333	ND	42.6	30-120	4.48	30
Fluorene	0.0157	0.00500	"	0.0333	ND	47.2	30-120	13.1	30
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333	ND	52.6	30-120	12.0	30
Pyrene	0.0158	0.00500	"	0.0333	ND	47.4	35-142	9.86	30
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.5	15-130	8.72	50
2-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	15-130	9.75	50
Surrogate: 2-Methylnaphthalene-d10	0.0146		"	0.0333		43.8	40-150		
Surrogate: Fluoranthene-d10	0.0163		"	0.0333		48.8	40-150		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

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

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

**Batch BGK1007 - EPA 3050B**

**Blank (BGK1007-BLK1)**

Prepared: 11/28/23 Analyzed: 11/29/23

Boron ND 2.00 mg/L

**LCS (BGK1007-BS1)**

Prepared: 11/28/23 Analyzed: 11/29/23

Boron 4.95 2.00 mg/L 5.00 99.0 80-120

**Duplicate (BGK1007-DUP1)**

**Source: 2311394-01**

Prepared: 11/28/23 Analyzed: 11/29/23

Boron 0.279 2.00 mg/L 0.294 5.07 20

**Matrix Spike (BGK1007-MS1)**

**Source: 2311394-01**

Prepared: 11/28/23 Analyzed: 11/29/23

Boron 5.09 2.00 mg/L 5.00 0.294 95.9 75-125

**Matrix Spike Dup (BGK1007-MSD1)**

**Source: 2311394-01**

Prepared: 11/28/23 Analyzed: 11/29/23

Boron 5.19 2.00 mg/L 5.00 0.294 98.0 75-125 2.11 25

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGK1132 - EPA 3050B**

**Blank (BGK1132-BLK1)**

Prepared: 11/30/23 Analyzed: 12/01/23

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

**LCS (BGK1132-BS1)**

Prepared: 11/30/23 Analyzed: 12/01/23

Arsenic	34.2	0.200	mg/kg wet	40.0		85.5	80-120
Barium	36.9	0.400	"	40.0		92.2	80-120
Cadmium	1.88	0.200	"	2.00		93.9	80-120
Copper	42.9	0.400	"	40.0		107	80-120
Lead	19.0	0.200	"	20.0		94.8	80-120
Nickel	42.6	0.400	"	40.0		107	80-120
Silver	1.84	0.0200	"	2.00		92.1	80-120
Zinc	41.8	0.400	"	40.0		105	80-120
Selenium	3.63	0.260	"	4.00		90.8	80-120

**Duplicate (BGK1132-DUP1)**

Source: 2311398-60

Prepared: 11/30/23 Analyzed: 12/01/23

Arsenic	1.62	0.200	mg/kg dry	2.08		24.7	20	QR-01
Barium	40.5	0.400	"	47.1		15.0	20	
Cadmium	0.111	0.200	"	0.137		21.1	20	QR-01
Copper	1.62	0.400	"	2.55		44.4	20	QR-01
Lead	3.55	0.200	"	4.27		18.5	20	
Nickel	3.27	0.400	"	4.00		20.1	20	QR-01
Silver	0.0114	0.0200	"	0.0149		26.7	20	QR-01
Zinc	9.44	0.400	"	12.0		23.8	20	QR-04
Selenium	ND	0.260	"	ND			20	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGK1132 - EPA 3050B**

**Matrix Spike (BGK1132-MS1)**

Source: 2311398-60

Prepared: 11/30/23 Analyzed: 12/01/23

Arsenic	36.2	0.200	mg/kg dry	43.7	2.08	78.0	75-125				
Barium	96.3	0.400	"	43.7	47.1	113	75-125				
Cadmium	2.15	0.200	"	2.19	0.137	92.3	75-125				
Copper	32.9	0.400	"	43.7	2.55	69.5	75-125				QM-05
Lead	24.1	0.200	"	21.9	4.27	90.6	75-125				
Nickel	33.9	0.400	"	43.7	4.00	68.3	75-125				QM-05
Silver	1.92	0.0200	"	2.19	0.0149	87.3	75-125				
Zinc	44.3	0.400	"	43.7	12.0	74.0	75-125				QM-05
Selenium	3.29	0.260	"	4.37	ND	75.2	75-125				

**Matrix Spike Dup (BGK1132-MSD1)**

Source: 2311398-60

Prepared: 11/30/23 Analyzed: 12/01/23

Arsenic	38.1	0.200	mg/kg dry	43.7	2.08	82.4	75-125	5.24	25		
Barium	96.6	0.400	"	43.7	47.1	113	75-125	0.299	25		
Cadmium	2.17	0.200	"	2.19	0.137	92.8	75-125	0.486	25		
Copper	34.5	0.400	"	43.7	2.55	73.0	75-125	4.60	25		QM-05
Lead	24.3	0.200	"	21.9	4.27	91.4	75-125	0.756	25		
Nickel	35.4	0.400	"	43.7	4.00	71.8	75-125	4.37	25		QM-05
Silver	1.93	0.0200	"	2.19	0.0149	87.6	75-125	0.318	25		
Zinc	46.3	0.400	"	43.7	12.0	78.6	75-125	4.45	25		
Selenium	3.39	0.260	"	4.37	ND	77.5	75-125	2.93	25		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1022 - 3060A Mod**

**Blank (BGK1022-BLK1)**

Prepared: 11/28/23 Analyzed: 11/29/23

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BGK1022-BS1)**

Prepared: 11/28/23 Analyzed: 11/29/23

Chromium, Hexavalent      26.6      0.30    mg/kg wet      25.0      106      80-120

**Duplicate (BGK1022-DUP1)**

**Source: 2311473-01**

Prepared: 11/28/23 Analyzed: 11/29/23

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BGK1022-MS1)**

**Source: 2311473-01**

Prepared: 11/28/23 Analyzed: 11/29/23

Chromium, Hexavalent      30.8      0.30    mg/kg dry      29.8      ND      104      75-125

**Matrix Spike Dup (BGK1022-MSD1)**

**Source: 2311473-01**

Prepared: 11/28/23 Analyzed: 11/29/23

Chromium, Hexavalent      30.4      0.30    mg/kg dry      29.8      ND      102      75-125      1.56      20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

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

**Summit Scientific**

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

**Batch BGK0989 - General Preparation**

**Blank (BGK0989-BLK1)**

Prepared: 11/27/23 Analyzed: 11/30/23

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

**LCS (BGK0989-BS1)**

Prepared: 11/27/23 Analyzed: 11/30/23

Calcium	5.67	0.0500	mg/L wet	5.00		113	70-130			
Magnesium	5.70	0.0500	"	5.00		114	70-130			
Sodium	5.61	0.0500	"	5.00		112	70-130			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

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

**Summit Scientific**

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

**Batch BGK1003 - General Preparation**

Duplicate (BGK1003-DUP1)	Source: 2311397-01	Prepared: 11/28/23	Analyzed: 11/29/23
% Solids	92.7	%	92.8
			0.133
			20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

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

**Summit Scientific**

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

**Batch BGK0997 - General Preparation**

**LCS (BGK0997-BS1)**

Prepared: 11/28/23 Analyzed: 12/04/23

pH	9.09	pH Units	9.18	99.0	95-105
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**Duplicate (BGK0997-DUP1)**

Source: 2311339-01

Prepared: 11/28/23 Analyzed: 12/04/23

pH	10.0	pH Units	10.0	0.00	20
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Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:16

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1090 - General Preparation**

**Blank (BGK1090-BLK1)**

Prepared & Analyzed: 11/29/23

Specific Conductance (EC)      ND      0.0100    mmhos/cm

**LCS (BGK1090-BS1)**

Prepared & Analyzed: 11/29/23

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

**Duplicate (BGK1090-DUP1)**

**Source: 2311439-01**

Prepared & Analyzed: 11/29/23

Specific Conductance (EC)      0.334      0.0100    mmhos/cm      0.337      0.835      20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:16

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 08, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Balboa C20-9X  
Work Order #2311548

Enclosed are the results of analyses for samples received by Summit Scientific on 11/28/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a long horizontal stroke at the end.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NE WALL 13FT	2311548-01	Soil	11/28/23 00:00	11/28/23 16:30
SW WALL 13FT	2311548-02	Soil	11/28/23 00:00	11/28/23 16:30
E2 WALL 13FT	2311548-03	Soil	11/28/23 00:00	11/28/23 16:30
FLOOR 14FT	2311548-04	Soil	11/28/23 00:00	11/28/23 16:30

Summit Scientific

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

# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2311548	

<b>Send Data To:</b>		<b>Send Invoice To:</b>	
Client: Fremont Environmental, Inc.	Project Manager: Henshan	Company: Chevron	
Address: 8305 6th St.	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AF#:	
Phone: 603-477-6907	Project Name: Noble - Balboa C20-9x	PO/Billing Codes: ULRWE - A2516 - ARN	
Sampler Name: Ethan Black	Project Number:	Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil		Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	
1	NE WALL 13FT	11/28/23		2			X					X	X	X	X	X		
2	SW WALL 13FT	↓		↓								↓	↓	↓	↓	↓		
3	E2 WALL 13FT	↓		↓								↓	↓	↓	↓	↓		
4	FLOOR 14FT	↓		↓								↓	↓	↓	↓	↓		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <i>Ethan Black</i>	Date/Time: 11/28/23 1330	Received by: S2 - North Office	Date/Time: 11/28/23 1330	TAT Business Days	Field DO	Notes: Send PAH data in a supplemental report ASAP. Thanks, EB
Relinquished by: SL	Date/Time: 11/28/23 1630	Received by: <i>[Signature]</i>	Date/Time: 11/28/23 1630	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 8.8	Corrected Temperature: 9	IR gun #:	HNO3 lot #:	Standard	Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2311548

Client: Fremont

Client Project ID: Noble-Balboa C20-9X

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

Airbill #:

Grid for shipping method selection

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

8.8

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.	-			
If custody seals are present, are they intact? (1)	-			on ice
Are samples due within 48 hours present?	-			same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		-		
Is a chain-of-custody (COC) form present and filled out completely? (1)	-			no time stamps
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)	✓			
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 <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , 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

11/28/23  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**NE WALL 13FT**  
**2311548-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK1044	11/28/23	11/29/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0511	128 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0545	136 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK1042	11/28/23	11/28/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	17.5	140 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**NE WALL 13FT  
2311548-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK1070	11/29/23	11/29/23	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: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0177	53.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1059	11/29/23	12/01/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/28/23 00:00**

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

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**NE WALL 13FT  
2311548-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.70	0.200	mg/kg dry	1	BGK1084	11/29/23	12/02/23	EPA 6020B	
Cadmium	0.348	0.200	"	"	"	"	"	"	
Copper	3.18	0.400	"	"	"	"	"	"	
Lead	16.6	0.200	"	"	"	"	"	"	
Nickel	4.74	0.400	"	"	"	"	"	"	
Silver	0.0802	0.0200	"	"	"	"	"	"	
Zinc	17.0	0.400	"	"	"	"	"	"	
Selenium	0.487	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/28/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1079	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: 11/28/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	314	0.0500	mg/L dry	1	BGK1046	11/28/23	11/30/23	EPA 6020B	
Magnesium	159	0.0500	"	"	"	"	"	"	
Sodium	114	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/28/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.31	0.00100	units	1	BGL0061	12/02/23	12/02/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/28/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.8		%	1	BGK1058	11/29/23	11/29/23	Calculation	

Summit Scientific

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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**NE WALL 13FT**  
**2311548-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.56</b>		pH Units	1	BGK1050	11/29/23	11/29/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.620</b>	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**NE WALL 13FT**  
**2311548-01 (Soil)**


**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>90.9</b>	0.400	mg/kg dry	1	BGL0763	11/29/23	12/30/23	EPA 6020B	

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Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**SW WALL 13FT**  
**2311548-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK1044	11/28/23	11/29/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0462	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0332	83.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK1042	11/28/23	11/29/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.8	135 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**SW WALL 13FT**  
**2311548-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK1070	11/29/23	11/30/23	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: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0230	69.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0177	53.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1059	11/29/23	12/01/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/28/23 00:00**

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

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**SW WALL 13FT  
2311548-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.203	0.200	mg/kg dry	1	BGK1084	11/29/23	12/01/23	EPA 6020B	
Barium	3.43	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.442	0.400	"	"	"	"	"	"	
Lead	0.452	0.200	"	"	"	"	"	"	
Nickel	ND	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	1.10	0.400	"	"	"	"	"	"	
Selenium	0.357	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/28/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1079	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: 11/28/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.7	0.0500	mg/L dry	1	BGK1046	11/28/23	11/30/23	EPA 6020B	
Magnesium	10.6	0.0500	"	"	"	"	"	"	
Sodium	102	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/28/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.95	0.00100	units	1	BGL0061	12/02/23	12/02/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**SW WALL 13FT  
 2311548-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.2		%	1	BGK1058	11/29/23	11/29/23	Calculation	

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

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.64		pH Units	1	BGK1050	11/29/23	11/29/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.487	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**E2 WALL 13FT**  
**2311548-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK1044	11/28/23	11/29/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0442	110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0561	140 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.7 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>130</b>	50		mg/kg	1	BGK1042	11/28/23	11/29/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	16.2	129 %		30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**E2 WALL 13FT  
2311548-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1059	11/29/23	12/01/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.297</b>	0.200	mg/kg dry	1	BGK1084	11/29/23	12/01/23	EPA 6020B	
<b>Barium</b>	<b>16.1</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.10</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>0.900</b>	0.200	"	"	"	"	"	"	
Nickel	ND	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>1.76</b>	0.400	"	"	"	"	"	"	
<b>Selenium</b>	<b>0.302</b>	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1079	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>60.6</b>	0.0500	mg/L dry	1	BGK1046	11/28/23	11/30/23	EPA 6020B	
<b>Magnesium</b>	<b>43.2</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>284</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**E2 WALL 13FT  
 2311548-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.81	0.00100	units	1	BGL0061	12/02/23	12/02/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.9		%	1	BGK1058	11/29/23	11/29/23	Calculation	

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

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BGK1050	11/29/23	11/29/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.763	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**E2 WALL 13FT**  
**2311548-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0750	12/20/23	12/21/23	EPA 8270D SIM	I-04
Anthracene	ND	0.00500	"	"	"	"	"	"	I-04
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	I-04
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	I-04
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	I-04
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	I-04
Chrysene	ND	0.00500	"	"	"	"	"	"	I-04
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	I-04
Fluoranthene	ND	0.00500	"	"	"	"	"	"	I-04
Fluorene	ND	0.00500	"	"	"	"	"	"	I-04
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	I-04
Pyrene	ND	0.00500	"	"	"	"	"	"	I-04
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	I-04
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	I-04

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	54.1 %	40-150		"	"	"	"	I-04
Surrogate: Fluoranthene-d10	0.0182	54.5 %	40-150		"	"	"	"	I-04

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**FLOOR 14FT**  
**2311548-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK1044	11/28/23	11/29/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0542	136 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0526	131 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0359	89.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK1042	11/28/23	11/29/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	17.1	137 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**FLOOR 14FT**  
**2311548-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK1070	11/29/23	11/30/23	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: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0167	50.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0146	43.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1059	11/29/23	12/01/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/28/23 00:00**

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

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**FLOOR 14FT**  
**2311548-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	ND	0.200	mg/kg dry	1	BGK1084	11/29/23	12/01/23	EPA 6020B	
<b>Barium</b>	<b>0.970</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	ND	0.400	"	"	"	"	"	"	
Lead	ND	0.200	"	"	"	"	"	"	
Nickel	ND	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>0.476</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1079	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>8.00</b>	0.0500	mg/L dry	1	BGK1046	11/28/23	11/30/23	EPA 6020B	
<b>Magnesium</b>	<b>8.85</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>132</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>7.65</b>	0.00100	units	1	BGL0061	12/02/23	12/02/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**FLOOR 14FT**  
**2311548-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>84.8</b>		%	1	BGK1058	11/29/23	11/29/23	Calculation	

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

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.62</b>		pH Units	1	BGK1050	11/29/23	11/29/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>1.19</b>	0.0100	mmhos/cm	1	BGK1090	11/29/23	11/29/23	EPA 120.1	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BGK1044 - EPA 5030 Soil MS

##### Blank (BGK1044-BLK1)

Prepared: 11/28/23 Analyzed: 11/29/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0502		"	0.0400		125	50-150			
<i>Surrogate: Toluene-d8</i>	0.0549		"	0.0400		137	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0369		"	0.0400		92.3	50-150			

##### LCS (BGK1044-BS1)

Prepared: 11/28/23 Analyzed: 11/29/23

Benzene	0.0916	0.0020	mg/kg	0.100		91.6	70-130			
Toluene	0.103	0.0050	"	0.100		103	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.179	0.010	"	0.200		89.7	70-130			
o-Xylene	0.0880	0.0050	"	0.100		88.0	70-130			
1,2,4-Trimethylbenzene	0.0938	0.0050	"	0.100		93.8	70-130			
1,3,5-Trimethylbenzene	0.0921	0.0050	"	0.100		92.1	70-130			
Naphthalene	0.0818	0.0038	"	0.100		81.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0520		"	0.0400		130	50-150			
<i>Surrogate: Toluene-d8</i>	0.0545		"	0.0400		136	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0379		"	0.0400		94.7	50-150			

##### Matrix Spike (BGK1044-MS1)

Source: 2311547-01

Prepared: 11/28/23 Analyzed: 11/29/23

Benzene	0.0946	0.0020	mg/kg	0.100	ND	94.6	70-130			
Toluene	0.0890	0.0050	"	0.100	ND	89.0	70-130			
Ethylbenzene	0.0966	0.0050	"	0.100	ND	96.6	70-130			
m,p-Xylene	0.198	0.010	"	0.200	ND	98.9	70-130			
o-Xylene	0.0872	0.0050	"	0.100	ND	87.2	70-130			
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
1,3,5-Trimethylbenzene	0.0883	0.0050	"	0.100	ND	88.3	70-130			
Naphthalene	0.0850	0.0038	"	0.100	ND	85.0	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0522		"	0.0400		131	50-150			
<i>Surrogate: Toluene-d8</i>	0.0524		"	0.0400		131	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0530		"	0.0400		132	50-150			

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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

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

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

**Batch BGK1044 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGK1044-MSD1)</b>	<b>Source: 2311547-01</b>			<b>Prepared: 11/28/23 Analyzed: 11/29/23</b>						
Benzene	0.0890	0.0020	mg/kg	0.100	ND	89.0	70-130	6.11	30	
Toluene	0.0887	0.0050	"	0.100	ND	88.7	70-130	0.338	30	
Ethylbenzene	0.0927	0.0050	"	0.100	ND	92.7	70-130	4.06	30	
m,p-Xylene	0.182	0.010	"	0.200	ND	91.2	70-130	8.05	30	
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130	19.0	30	
1,2,4-Trimethylbenzene	0.0855	0.0050	"	0.100	ND	85.5	70-130	21.3	30	
1,3,5-Trimethylbenzene	0.0834	0.0050	"	0.100	ND	83.4	70-130	5.69	30	
Naphthalene	0.0991	0.0038	"	0.100	ND	99.1	70-130	15.3	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0556</i>		<i>"</i>	<i>0.0400</i>		<i>139</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0557</i>		<i>"</i>	<i>0.0400</i>		<i>139</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0576</i>		<i>"</i>	<i>0.0400</i>		<i>144</i>	<i>50-150</i>			

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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1042 - EPA 3550A**

**Blank (BGK1042-BLK1)**

Prepared: 11/28/23 Analyzed: 11/29/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	15.5		"	12.5		124		30-150			

**LCS (BGK1042-BS1)**

Prepared: 11/28/23 Analyzed: 11/29/23

C10-C28 (DRO)	410	50	mg/kg	500		82.0		70-130			
Surrogate: <i>o</i> -Terphenyl	16.4		"	12.5		131		30-150			

**Matrix Spike (BGK1042-MS1)**

Source: 2311547-01

Prepared: 11/28/23 Analyzed: 11/29/23

C10-C28 (DRO)	551	50	mg/kg	500	ND	110		70-130			
Surrogate: <i>o</i> -Terphenyl	16.8		"	12.5		134		30-150			

**Matrix Spike Dup (BGK1042-MSD1)**

Source: 2311547-01

Prepared: 11/28/23 Analyzed: 11/29/23

C10-C28 (DRO)	550	50	mg/kg	500	ND	110		70-130	0.109	20	
Surrogate: <i>o</i> -Terphenyl	16.6		"	12.5		133		30-150			

Summit Scientific

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGK1070 - EPA 5030 Soil MS**

**Blank (BGK1070-BLK1)**

Prepared & Analyzed: 11/29/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0426</i>		"	<i>0.0333</i>		<i>128</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0350</i>		"	<i>0.0333</i>		<i>105</i>	<i>40-150</i>			

**LCS (BGK1070-BS1)**

Prepared & Analyzed: 11/29/23

Acenaphthene	0.0279	0.00500	mg/kg	0.0333	83.7	31-137
Anthracene	0.0328	0.00500	"	0.0333	98.5	30-120
Benzo (a) anthracene	0.0294	0.00500	"	0.0333	88.3	30-120
Benzo (a) pyrene	0.0276	0.00500	"	0.0333	82.9	30-120
Benzo (b) fluoranthene	0.0275	0.00500	"	0.0333	82.4	30-120
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333	90.4	30-120
Chrysene	0.0328	0.00500	"	0.0333	98.5	30-120
Dibenz (a,h) anthracene	0.0285	0.00500	"	0.0333	85.5	30-120
Fluoranthene	0.0315	0.00500	"	0.0333	94.5	30-120
Fluorene	0.0277	0.00500	"	0.0333	83.2	30-120
Indeno (1,2,3-cd) pyrene	0.0394	0.00500	"	0.0333	118	30-120
Pyrene	0.0336	0.00500	"	0.0333	101	35-142
1-Methylnaphthalene	0.0353	0.00500	"	0.0333	106	35-142
2-Methylnaphthalene	0.0380	0.00500	"	0.0333	114	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0258</i>		"	<i>0.0333</i>	<i>77.4</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0311</i>		"	<i>0.0333</i>	<i>93.2</i>	<i>40-150</i>

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGK1070 - EPA 5030 Soil MS**

**Matrix Spike (BGK1070-MS1)**

Source: 2311467-01

Prepared & Analyzed: 11/29/23

Acenaphthene	0.0172	0.00500	mg/kg	0.0333	ND	51.7	31-137			
Anthracene	0.0209	0.00500	"	0.0333	ND	62.8	30-120			
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	ND	62.2	30-120			
Benzo (a) pyrene	0.0201	0.00500	"	0.0333	ND	60.2	30-120			
Benzo (b) fluoranthene	0.0200	0.00500	"	0.0333	ND	59.9	30-120			
Benzo (k) fluoranthene	0.0206	0.00500	"	0.0333	ND	61.8	30-120			
Chrysene	0.0200	0.00500	"	0.0333	ND	59.9	30-120			
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333	ND	51.0	30-120			
Fluoranthene	0.0213	0.00500	"	0.0333	ND	64.0	30-120			
Fluorene	0.0183	0.00500	"	0.0333	ND	54.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0230	0.00500	"	0.0333	ND	68.9	30-120			
Pyrene	0.0237	0.00500	"	0.0333	ND	71.0	35-142			
1-Methylnaphthalene	0.0253	0.00500	"	0.0333	ND	75.8	15-130			
2-Methylnaphthalene	0.0264	0.00500	"	0.0333	ND	79.2	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0156		"	0.0333		46.8	40-150			
Surrogate: Fluoranthene-d10	0.0213		"	0.0333		63.9	40-150			

**Matrix Spike Dup (BGK1070-MSD1)**

Source: 2311467-01

Prepared & Analyzed: 11/29/23

Acenaphthene	0.0160	0.00500	mg/kg	0.0333	ND	48.1	31-137	7.33	30
Anthracene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	4.51	30
Benzo (a) anthracene	0.0195	0.00500	"	0.0333	ND	58.5	30-120	6.15	30
Benzo (a) pyrene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	14.4	30
Benzo (b) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	14.7	30
Benzo (k) fluoranthene	0.0169	0.00500	"	0.0333	ND	50.8	30-120	19.5	30
Chrysene	0.0185	0.00500	"	0.0333	ND	55.4	30-120	7.66	30
Dibenz (a,h) anthracene	0.0159	0.00500	"	0.0333	ND	47.8	30-120	6.45	30
Fluoranthene	0.0207	0.00500	"	0.0333	ND	62.1	30-120	2.92	30
Fluorene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	2.91	30
Indeno (1,2,3-cd) pyrene	0.0220	0.00500	"	0.0333	ND	66.0	30-120	4.17	30
Pyrene	0.0210	0.00500	"	0.0333	ND	63.0	35-142	11.9	30
1-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	62.9	15-130	18.5	50
2-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.0	15-130	15.1	50
Surrogate: 2-Methylnaphthalene-d10	0.0147		"	0.0333		44.2	40-150		
Surrogate: Fluoranthene-d10	0.0195		"	0.0333		58.4	40-150		

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**PAH by EPA Method 8270D SIM - Quality Control**  
**Summit Scientific**

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

**Batch BGL0750 - EPA 5030 Soil MS**

**Blank (BGL0750-BLK1)**

Prepared: 12/20/23 Analyzed: 12/21/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0145</i>		"	<i>0.0333</i>		<i>43.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0324</i>		"	<i>0.0333</i>		<i>97.2</i>	<i>40-150</i>			

**LCS (BGL0750-BS1)**

Prepared: 12/20/23 Analyzed: 12/21/23

Acenaphthene	0.0261	0.00500	mg/kg	0.0333		78.3	31-137			
Anthracene	0.0267	0.00500	"	0.0333		80.2	30-120			
Benzo (a) anthracene	0.0251	0.00500	"	0.0333		75.2	30-120			
Benzo (a) pyrene	0.0219	0.00500	"	0.0333		65.7	30-120			
Benzo (b) fluoranthene	0.0250	0.00500	"	0.0333		75.0	30-120			
Benzo (k) fluoranthene	0.0268	0.00500	"	0.0333		80.3	30-120			
Chrysene	0.0281	0.00500	"	0.0333		84.4	30-120			
Dibenz (a,h) anthracene	0.0192	0.00500	"	0.0333		57.6	30-120			
Fluoranthene	0.0275	0.00500	"	0.0333		82.4	30-120			
Fluorene	0.0248	0.00500	"	0.0333		74.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333		54.1	30-120			
Pyrene	0.0290	0.00500	"	0.0333		87.1	35-142			
1-Methylnaphthalene	0.0242	0.00500	"	0.0333		72.7	35-142			
2-Methylnaphthalene	0.0243	0.00500	"	0.0333		72.8	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0230</i>		"	<i>0.0333</i>		<i>68.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0283</i>		"	<i>0.0333</i>		<i>84.9</i>	<i>40-150</i>			

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGL0750 - EPA 5030 Soil MS**

<b>Matrix Spike (BGL0750-MS1)</b>	<b>Source: 2312262-01</b>			Prepared: 12/20/23 Analyzed: 12/21/23					
Acenaphthene	0.0204	0.00500	mg/kg	0.0333	ND	61.2	31-137		
Anthracene	0.0220	0.00500	"	0.0333	ND	66.0	30-120		
Benzo (a) anthracene	0.0239	0.00500	"	0.0333	ND	71.7	30-120		
Benzo (a) pyrene	0.0219	0.00500	"	0.0333	ND	65.8	30-120		
Benzo (b) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.2	30-120		
Benzo (k) fluoranthene	0.0222	0.00500	"	0.0333	ND	66.5	30-120		
Chrysene	0.0225	0.00500	"	0.0333	ND	67.6	30-120		
Dibenz (a,h) anthracene	0.0172	0.00500	"	0.0333	ND	51.5	30-120		
Fluoranthene	0.0238	0.00500	"	0.0333	0.00873	45.2	30-120		
Fluorene	0.0210	0.00500	"	0.0333	ND	62.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.2	30-120		
Pyrene	0.0270	0.00500	"	0.0333	0.00736	59.1	35-142		
1-Methylnaphthalene	0.0196	0.00500	"	0.0333	ND	58.7	15-130		
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.0	15-130		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0195</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>58.4</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0227</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>68.2</i>	<i>40-150</i>		

<b>Matrix Spike Dup (BGL0750-MSD1)</b>	<b>Source: 2312262-01</b>			Prepared: 12/20/23 Analyzed: 12/21/23					
Acenaphthene	0.0189	0.00500	mg/kg	0.0333	ND	56.8	31-137	7.46	30
Anthracene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	7.65	30
Benzo (a) anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120	7.33	30
Benzo (a) pyrene	0.0201	0.00500	"	0.0333	ND	60.2	30-120	8.99	30
Benzo (b) fluoranthene	0.0231	0.00500	"	0.0333	ND	69.3	30-120	6.83	30
Benzo (k) fluoranthene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	10.7	30
Chrysene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	16.1	30
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	12.2	30
Fluoranthene	0.0244	0.00500	"	0.0333	0.00873	47.0	30-120	2.56	30
Fluorene	0.0195	0.00500	"	0.0333	ND	58.4	30-120	7.47	30
Indeno (1,2,3-cd) pyrene	0.0161	0.00500	"	0.0333	ND	48.4	30-120	9.58	30
Pyrene	0.0265	0.00500	"	0.0333	0.00736	57.6	35-142	1.83	30
1-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	48.9	15-130	18.2	50
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	15-130	10.8	50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0161</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>48.4</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0198</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>59.4</i>	<i>40-150</i>		

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

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

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

**Batch BGK1059 - EPA 3050B**

**Blank (BGK1059-BLK1)**

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

Boron ND 2.00 mg/L

**LCS (BGK1059-BS1)**

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

Boron 5.06 2.00 mg/L 5.00 101 80-120

**Duplicate (BGK1059-DUP1)**

**Source: 2311410-01**

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

Boron 0.221 2.00 mg/L 0.220 0.276 20

**Matrix Spike (BGK1059-MS1)**

**Source: 2311410-01**

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

Boron 5.21 2.00 mg/L 5.00 0.220 99.8 75-125

**Matrix Spike Dup (BGK1059-MSD1)**

**Source: 2311410-01**

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

Boron 4.62 2.00 mg/L 5.00 0.220 88.0 75-125 12.0 25

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGK1084 - EPA 3050B**

**Blank (BGK1084-BLK1)**

Prepared: 11/29/23 Analyzed: 12/02/23

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

**LCS (BGK1084-BS1)**

Prepared: 11/29/23 Analyzed: 12/02/23

Arsenic	45.9	0.200	mg/kg wet	40.0	115	80-120				
Barium	44.7	0.400	"	40.0	112	80-120				
Cadmium	2.12	0.200	"	2.00	106	80-120				
Copper	44.5	0.400	"	40.0	111	80-120				
Lead	20.4	0.200	"	20.0	102	80-120				
Nickel	44.7	0.400	"	40.0	112	80-120				
Silver	2.06	0.0200	"	2.00	103	80-120				
Zinc	45.6	0.400	"	40.0	114	80-120				
Selenium	4.39	0.260	"	4.00	110	80-120				

**Duplicate (BGK1084-DUP1)**

Source: 2311548-01

Prepared: 11/29/23 Analyzed: 12/02/23

Arsenic	1.68	0.200	mg/kg dry	1.70	1.32	20				
Barium	113	0.400	"	367	106	20				QR-04
Cadmium	0.339	0.200	"	0.348	2.59	20				
Copper	2.82	0.400	"	3.18	12.2	20				
Lead	14.6	0.200	"	16.6	13.3	20				
Nickel	4.31	0.400	"	4.74	9.61	20				
Silver	0.0762	0.0200	"	0.0802	5.06	20				
Zinc	15.6	0.400	"	17.0	8.48	20				
Selenium	0.610	0.260	"	0.487	22.6	20				QR-01

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Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGK1084 - EPA 3050B**

**Matrix Spike (BGK1084-MS1)**

Source: 2311548-01

Prepared: 11/29/23 Analyzed: 12/02/23

Arsenic	14.1	0.200	mg/kg dry	49.5	1.70	25.0	75-125				QM-07
Barium	174	0.400	"	49.5	367	NR	75-125				QM-07
Cadmium	3.13	0.200	"	2.47	0.348	113	75-125				
Copper	15.3	0.400	"	49.5	3.18	24.4	75-125				QM-07
Lead	38.7	0.200	"	24.7	16.6	89.0	75-125				
Nickel	16.9	0.400	"	49.5	4.74	24.6	75-125				QM-07
Silver	2.67	0.0200	"	2.47	0.0802	105	75-125				
Zinc	32.1	0.400	"	49.5	17.0	30.4	75-125				QM-07
Selenium	10.7	0.260	"	4.95	0.487	207	75-125				QM-07

**Matrix Spike Dup (BGK1084-MSD1)**

Source: 2311548-01

Prepared: 11/29/23 Analyzed: 12/02/23

Arsenic	14.2	0.200	mg/kg dry	49.5	1.70	25.2	75-125	0.746	25		QM-07
Barium	176	0.400	"	49.5	367	NR	75-125	1.16	25		QM-07
Cadmium	3.15	0.200	"	2.47	0.348	113	75-125	0.630	25		
Copper	15.4	0.400	"	49.5	3.18	24.6	75-125	0.539	25		QM-07
Lead	38.7	0.200	"	24.7	16.6	88.9	75-125	0.0141	25		
Nickel	16.9	0.400	"	49.5	4.74	24.7	75-125	0.193	25		QM-07
Silver	2.69	0.0200	"	2.47	0.0802	105	75-125	0.702	25		
Zinc	32.4	0.400	"	49.5	17.0	31.0	75-125	0.920	25		QM-07
Selenium	9.77	0.260	"	4.95	0.487	188	75-125	9.25	25		QM-07

**Batch BGL0763 - EPA 3050B**

**Blank (BGL0763-BLK1)**

Prepared: 12/20/23 Analyzed: 12/29/23

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGL0763 - EPA 3050B**

**LCS (BGL0763-BS1)**

Prepared: 12/20/23 Analyzed: 12/29/23

Arsenic	40.2	0.200	mg/kg wet	40.0		101	80-120			
Barium	44.8	0.400	"	40.0		112	80-120			
Cadmium	2.22	0.200	"	2.00		111	80-120			
Copper	45.6	0.400	"	40.0		114	80-120			
Lead	22.6	0.200	"	20.0		113	80-120			
Nickel	44.7	0.400	"	40.0		112	80-120			
Silver	2.09	0.0200	"	2.00		105	80-120			
Zinc	44.7	0.400	"	40.0		112	80-120			
Selenium	4.38	0.260	"	4.00		110	80-120			

**Duplicate (BGL0763-DUP1)**

Source: 2311190-05

Prepared: 12/20/23 Analyzed: 12/29/23

Arsenic	2.90	0.200	mg/kg wet		2.99			2.87	20
Barium	36.9	0.400	"		35.1			5.02	20
Cadmium	0.161	0.200	"		0.140			13.8	20
Copper	3.65	0.400	"		3.51			3.83	20
Lead	6.89	0.200	"		6.83			0.868	20
Nickel	3.82	0.400	"		3.69			3.46	20
Silver	0.0244	0.0200	"		0.0228			6.78	20
Zinc	17.3	0.400	"		16.8			2.83	20
Selenium	ND	0.260	"		ND				20

**Matrix Spike (BGL0763-MS1)**

Source: 2311190-05

Prepared: 12/20/23 Analyzed: 12/29/23

Arsenic	40.5	0.200	mg/kg wet	40.0	2.99	93.8	75-125		
Barium	82.7	0.400	"	40.0	35.1	119	75-125		
Cadmium	2.35	0.200	"	2.00	0.140	110	75-125		
Copper	30.4	0.400	"	40.0	3.51	67.2	75-125		QM-07
Lead	28.6	0.200	"	20.0	6.83	109	75-125		
Nickel	30.9	0.400	"	40.0	3.69	68.0	75-125		QM-07
Silver	2.08	0.0200	"	2.00	0.0228	103	75-125		
Zinc	294	0.400	"	40.0	16.8	692	75-125		QM-07
Selenium	3.28	0.260	"	4.00	ND	82.1	75-125		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGL0763 - EPA 3050B**

Matrix Spike Dup (BGL0763-MSD1)	Source: 2311190-05			Prepared: 12/20/23 Analyzed: 12/29/23						
Arsenic	40.8	0.200	mg/kg wet	40.0	2.99	94.4	75-125	0.632	25	
Barium	80.1	0.400	"	40.0	35.1	112	75-125	3.26	25	
Cadmium	2.27	0.200	"	2.00	0.140	106	75-125	3.41	25	
Copper	30.2	0.400	"	40.0	3.51	66.8	75-125	0.549	25	QM-07
Lead	27.7	0.200	"	20.0	6.83	104	75-125	3.19	25	
Nickel	30.6	0.400	"	40.0	3.69	67.3	75-125	0.975	25	QM-07
Silver	2.03	0.0200	"	2.00	0.0228	100	75-125	2.16	25	
Zinc	293	0.400	"	40.0	16.8	691	75-125	0.0810	25	QM-07
Selenium	3.19	0.260	"	4.00	ND	79.9	75-125	2.75	25	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1079 - 3060A Mod**

**Blank (BGK1079-BLK1)**

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

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BGK1079-BS1)**

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

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

**Duplicate (BGK1079-DUP1)**

**Source: 2311548-01**

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

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BGK1079-MS1)**

**Source: 2311548-01**

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

Chromium, Hexavalent 29.9 0.30 mg/kg dry 30.9 ND 96.6 75-125

**Matrix Spike Dup (BGK1079-MSD1)**

**Source: 2311548-01**

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

Chromium, Hexavalent 30.3 0.30 mg/kg dry 30.9 ND 97.8 75-125 1.23 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

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

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

**Batch BGK1046 - General Preparation**

**Blank (BGK1046-BLK1)**

Prepared: 11/28/23 Analyzed: 11/30/23

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

**LCS (BGK1046-BS1)**

Prepared: 11/28/23 Analyzed: 11/30/23

Calcium	5.77	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.62	0.0500	"	5.00		112	70-130			
Sodium	5.75	0.0500	"	5.00		115	70-130			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

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

**Summit Scientific**

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

**Batch BGK1058 - General Preparation**


**Duplicate (BGK1058-DUP1)**

**Source: 2311401-01**

**Prepared & Analyzed: 11/29/23**

% Solids	90.9		%		91.4			0.577	20	
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Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

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

**Summit Scientific**

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

**Batch BGK1050 - General Preparation**

**LCS (BGK1050-BS1)**

Prepared & Analyzed: 11/29/23

pH	9.05	pH Units	9.18	98.6	95-105
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**Duplicate (BGK1050-DUP1)**

Source: 2311331-01

Prepared & Analyzed: 11/29/23

pH	9.01	pH Units	9.01	0.00	20
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Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/08/24 09:07

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1090 - General Preparation**

**Blank (BGK1090-BLK1)**

Prepared & Analyzed: 11/29/23

Specific Conductance (EC)      ND      0.0100    mmhos/cm

**LCS (BGK1090-BS1)**

Prepared & Analyzed: 11/29/23

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

**Duplicate (BGK1090-DUP1)**

**Source: 2311439-01**

Prepared & Analyzed: 11/29/23

Specific Conductance (EC)      0.334      0.0100    mmhos/cm      0.337      0.835      20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN

Project Manager: Paul Henchan

**Reported:**  
01/08/24 09:07

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- 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.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- 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

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 05, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Balboa C20-9X  
Work Order #2311574

Enclosed are the results of analyses for samples received by Summit Scientific on 11/29/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN

Project Manager: Paul Henchan

**Reported:**  
12/05/23 16:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SE Wall 13FT	2311574-01	Soil	11/29/23 00:00	11/29/23 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.*



S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2311574

Client: Fremont

Client Project ID: NDA - Balboa C20-9X

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

Airbill #: \_\_\_\_\_

Matrix (Check all that apply)

Air

Sol/Solid

Water

Other

Temp (°C)

8.1

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>all JEE</u>
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same day</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>No time stamps</u>
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column - HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS

Custodian Printed Name

11/29/23

Date/Time

11/29/23



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/05/23 16:08

**SE Wall 13FT**  
**2311574-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/29/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK1097	11/29/23	11/30/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.0072</b>	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>5.7</b>	0.050		"	10	"	"	"	"	
Naphthalene	ND	0.0038		"	1	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>25</b>	0.50		"	"	"	"	"	"	

Date Sampled: **11/29/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0602	150 %		50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/29/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>300</b>	50		mg/kg	1	BGK1099	11/29/23	11/29/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/29/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.8	103 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/05/23 16:08

**SE Wall 13FT**  
**2311574-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/29/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Acenaphthene</b>	<b>0.0248</b>	0.00500	mg/kg	1	BGK1112	11/30/23	12/01/23	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0222</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.244</b>	0.00500	"	"	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>0.575</b>	0.00500	"	"	"	"	"	"	E

Date Sampled: **11/29/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0159	47.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0191	57.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/29/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1119	11/30/23	12/02/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/29/23 00:00**

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

**SE Wall 13FT  
 2311574-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.56	0.200	mg/kg dry	1	BGL0023	12/01/23	12/04/23	EPA 6020B
Barium	58.1	0.400	"	"	"	"	"	"
Cadmium	0.380	0.200	"	"	"	"	"	"
Copper	3.49	0.400	"	"	"	"	"	"
Lead	13.8	0.200	"	"	"	"	"	"
Nickel	5.05	0.400	"	"	"	"	"	"
Silver	0.0440	0.0200	"	"	"	"	"	"
Zinc	17.1	0.400	"	"	"	"	"	"
Selenium	0.260	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/29/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1128	11/30/23	12/01/23	EPA 7196A	

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

Date Sampled: 11/29/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.5	0.0500	mg/L dry	1	BGK1095	11/29/23	12/02/23	EPA 6020B	
Magnesium	78.7	0.0500	"	"	"	"	"	"	
Sodium	285	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/29/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.25	0.00100	units	1	BGL0065	12/02/23	12/02/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/29/23 00:00

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

**SE Wall 13FT  
 2311574-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.8	%	1	BGK1146	11/30/23	11/30/23	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/29/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BGK1107	11/30/23	11/30/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/29/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.34	0.0100	mmhos/cm	1	BGK1149	11/30/23	11/30/23	EPA 120.1	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/05/23 16:08

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BGK1097 - EPA 5030 Soil MS

##### Blank (BGK1097-BLK1)

Prepared: 11/29/23 Analyzed: 11/30/23

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0397		"	0.0400		99.2	50-150				
<i>Surrogate: Toluene-d8</i>	0.0477		"	0.0400		119	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0485		"	0.0400		121	50-150				

##### LCS (BGK1097-BS1)

Prepared: 11/29/23 Analyzed: 11/30/23

Benzene	0.0958	0.0020	mg/kg	0.100		95.8	70-130				
Toluene	0.0892	0.0050	"	0.100		89.2	70-130				
Ethylbenzene	0.0843	0.0050	"	0.100		84.3	70-130				
m,p-Xylene	0.164	0.010	"	0.200		82.0	70-130				
o-Xylene	0.0791	0.0050	"	0.100		79.1	70-130				
1,2,4-Trimethylbenzene	0.0784	0.0050	"	0.100		78.4	70-130				
1,3,5-Trimethylbenzene	0.0780	0.0050	"	0.100		78.0	70-130				
Naphthalene	0.0708	0.0038	"	0.100		70.8	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0386		"	0.0400		96.5	50-150				
<i>Surrogate: Toluene-d8</i>	0.0472		"	0.0400		118	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0469		"	0.0400		117	50-150				

##### Matrix Spike (BGK1097-MS1)

Source: 2311571-01

Prepared: 11/29/23 Analyzed: 11/30/23

Benzene	0.109	0.0020	mg/kg	0.100	ND	109	70-130				
Toluene	0.103	0.0050	"	0.100	ND	103	70-130				
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130				
m,p-Xylene	0.201	0.010	"	0.200	ND	100	70-130				
o-Xylene	0.0970	0.0050	"	0.100	ND	97.0	70-130				
1,2,4-Trimethylbenzene	0.0947	0.0050	"	0.100	ND	94.7	70-130				
1,3,5-Trimethylbenzene	0.0961	0.0050	"	0.100	ND	96.1	70-130				
Naphthalene	0.0907	0.0038	"	0.100	ND	90.7	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0393		"	0.0400		98.2	50-150				
<i>Surrogate: Toluene-d8</i>	0.0469		"	0.0400		117	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0477		"	0.0400		119	50-150				

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

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

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

**Batch BGK1097 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGK1097-MSD1)</b>	<b>Source: 2311571-01</b>			<b>Prepared: 11/29/23 Analyzed: 11/30/23</b>						
Benzene	0.108	0.0020	mg/kg	0.100	ND	108	70-130	1.41	30	
Toluene	0.103	0.0050	"	0.100	ND	103	70-130	0.641	30	
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130	1.48	30	
m,p-Xylene	0.197	0.010	"	0.200	ND	98.6	70-130	1.74	30	
o-Xylene	0.0961	0.0050	"	0.100	ND	96.1	70-130	0.963	30	
1,2,4-Trimethylbenzene	0.0950	0.0050	"	0.100	ND	95.0	70-130	0.316	30	
1,3,5-Trimethylbenzene	0.0950	0.0050	"	0.100	ND	95.0	70-130	1.19	30	
Naphthalene	0.0940	0.0038	"	0.100	ND	94.0	70-130	3.54	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0481</i>		<i>"</i>	<i>0.0400</i>		<i>120</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0471</i>		<i>"</i>	<i>0.0400</i>		<i>118</i>	<i>50-150</i>			

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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1099 - EPA 3550A**

**Blank (BGK1099-BLK1)**

Prepared: 11/29/23 Analyzed: 11/30/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.0	30-150				

**LCS (BGK1099-BS1)**

Prepared: 11/29/23 Analyzed: 11/30/23

C10-C28 (DRO)	593	50	mg/kg	500		119	70-130				
Surrogate: <i>o</i> -Terphenyl	16.5		"	12.5		132	30-150				

**Matrix Spike (BGK1099-MS1)**

Source: 2311571-01

Prepared: 11/29/23 Analyzed: 11/30/23

C10-C28 (DRO)	628	50	mg/kg	500	31.9	119	70-130				
Surrogate: <i>o</i> -Terphenyl	12.0		"	12.5		96.0	30-150				

**Matrix Spike Dup (BGK1099-MSD1)**

Source: 2311571-01

Prepared: 11/29/23 Analyzed: 11/30/23

C10-C28 (DRO)	627	50	mg/kg	500	31.9	119	70-130	0.187	20		
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		101	30-150				

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/05/23 16:08

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGK1112 - EPA 5030 Soil MS**

**Blank (BGK1112-BLK1)**

Prepared & Analyzed: 11/30/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0366</i>		"	<i>0.0333</i>		<i>110</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0295</i>		"	<i>0.0333</i>		<i>88.6</i>		<i>40-150</i>		

**LCS (BGK1112-BS1)**

Prepared & Analyzed: 11/30/23

Acenaphthene	0.0255	0.00500	mg/kg	0.0333		76.4		31-137		
Anthracene	0.0306	0.00500	"	0.0333		91.7		30-120		
Benzo (a) anthracene	0.0287	0.00500	"	0.0333		86.2		30-120		
Benzo (a) pyrene	0.0260	0.00500	"	0.0333		77.9		30-120		
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333		77.0		30-120		
Benzo (k) fluoranthene	0.0266	0.00500	"	0.0333		79.8		30-120		
Chrysene	0.0310	0.00500	"	0.0333		93.0		30-120		
Dibenz (a,h) anthracene	0.0291	0.00500	"	0.0333		87.3		30-120		
Fluoranthene	0.0296	0.00500	"	0.0333		88.9		30-120		
Fluorene	0.0259	0.00500	"	0.0333		77.6		30-120		
Indeno (1,2,3-cd) pyrene	0.0291	0.00500	"	0.0333		87.4		30-120		
Pyrene	0.0309	0.00500	"	0.0333		92.6		35-142		
1-Methylnaphthalene	0.0310	0.00500	"	0.0333		92.9		35-142		
2-Methylnaphthalene	0.0341	0.00500	"	0.0333		102		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0230</i>		"	<i>0.0333</i>		<i>69.1</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0298</i>		"	<i>0.0333</i>		<i>89.5</i>		<i>40-150</i>		

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/05/23 16:08

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGK1112 - EPA 5030 Soil MS**

**Matrix Spike (BGK1112-MS1)**

Source: 2311504-03

Prepared & Analyzed: 11/30/23

Acenaphthene	0.0147	0.00500	mg/kg	0.0333	ND	44.2	31-137			
Anthracene	0.0178	0.00500	"	0.0333	ND	53.4	30-120			
Benzo (a) anthracene	0.0164	0.00500	"	0.0333	ND	49.3	30-120			
Benzo (a) pyrene	0.0138	0.00500	"	0.0333	ND	41.5	30-120			
Benzo (b) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.2	30-120			
Benzo (k) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.4	30-120			
Chrysene	0.0161	0.00500	"	0.0333	ND	48.4	30-120			
Dibenz (a,h) anthracene	0.0149	0.00500	"	0.0333	ND	44.6	30-120			
Fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120			
Fluorene	0.0137	0.00500	"	0.0333	ND	41.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120			
Pyrene	0.0170	0.00500	"	0.0333	ND	50.9	35-142			
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	51.1	15-130			
2-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.6	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0134		"	0.0333		40.3	40-150			
Surrogate: Fluoranthene-d10	0.0187		"	0.0333		56.2	40-150			

**Matrix Spike Dup (BGK1112-MSD1)**

Source: 2311504-03

Prepared & Analyzed: 11/30/23

Acenaphthene	0.0155	0.00500	mg/kg	0.0333	ND	46.6	31-137	5.27	30
Anthracene	0.0158	0.00500	"	0.0333	ND	47.4	30-120	11.9	30
Benzo (a) anthracene	0.0183	0.00500	"	0.0333	ND	55.0	30-120	11.0	30
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.5	30-120	17.5	30
Benzo (b) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.0	30-120	15.1	30
Benzo (k) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	30-120	14.9	30
Chrysene	0.0178	0.00500	"	0.0333	ND	53.4	30-120	9.83	30
Dibenz (a,h) anthracene	0.0167	0.00500	"	0.0333	ND	50.0	30-120	11.4	30
Fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	12.9	30
Fluorene	0.0149	0.00500	"	0.0333	ND	44.7	30-120	8.69	30
Indeno (1,2,3-cd) pyrene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	20.5	30
Pyrene	0.0200	0.00500	"	0.0333	ND	59.9	35-142	16.1	30
1-Methylnaphthalene	0.0162	0.00500	"	0.0333	ND	48.5	15-130	5.37	50
2-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.2	15-130	0.954	50
Surrogate: 2-Methylnaphthalene-d10	0.0137		"	0.0333		41.1	40-150		
Surrogate: Fluoranthene-d10	0.0166		"	0.0333		49.8	40-150		

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

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

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

**Batch BGK1119 - EPA 3050B**

**Blank (BGK1119-BLK1)**

Prepared: 11/30/23 Analyzed: 12/02/23

Boron ND 2.00 mg/L

**LCS (BGK1119-BS1)**

Prepared: 11/30/23 Analyzed: 12/02/23

Boron 5.16 2.00 mg/L 5.00 103 80-120

**Duplicate (BGK1119-DUP1)**

**Source: 2311431-01**

Prepared: 11/30/23 Analyzed: 12/02/23

Boron ND 2.00 mg/L ND 20

**Matrix Spike (BGK1119-MS1)**

**Source: 2311431-01**

Prepared: 11/30/23 Analyzed: 12/02/23

Boron 5.20 2.00 mg/L 5.00 ND 104 75-125

**Matrix Spike Dup (BGK1119-MSD1)**

**Source: 2311431-01**

Prepared: 11/30/23 Analyzed: 12/02/23

Boron 5.30 2.00 mg/L 5.00 ND 106 75-125 1.78 25

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/05/23 16:08

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGL0023 - EPA 3050B**

**Blank (BGL0023-BLK1)**

Prepared: 12/01/23 Analyzed: 12/04/23

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

**LCS (BGL0023-BS1)**

Prepared: 12/01/23 Analyzed: 12/04/23

Arsenic	46.7	0.200	mg/kg wet	40.0	117	80-120
Barium	43.7	0.400	"	40.0	109	80-120
Cadmium	2.28	0.200	"	2.00	114	80-120
Copper	40.9	0.400	"	40.0	102	80-120
Lead	22.4	0.200	"	20.0	112	80-120
Nickel	40.5	0.400	"	40.0	101	80-120
Silver	2.17	0.0200	"	2.00	109	80-120
Zinc	40.5	0.400	"	40.0	101	80-120
Selenium	4.11	0.260	"	4.00	103	80-120

**Duplicate (BGL0023-DUP1)**

Source: 2311432-01

Prepared: 12/01/23 Analyzed: 12/04/23

Arsenic	0.658	0.200	mg/kg dry	0.838	24.2	20	QR-01
Barium	25.7	0.400	"	25.7	0.101	20	
Cadmium	0.0554	0.200	"	0.0583	5.02	20	
Copper	0.998	0.400	"	1.17	15.8	20	
Lead	2.77	0.200	"	3.01	8.24	20	
Nickel	1.15	0.400	"	1.40	19.9	20	
Silver	0.00774	0.0200	"	0.0102	27.3	20	QR-01
Zinc	4.73	0.400	"	4.83	2.14	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGL0023 - EPA 3050B**

**Matrix Spike (BGL0023-MS1)**

Source: 2311432-01

Prepared: 12/01/23 Analyzed: 12/04/23

Arsenic	19.7	0.200	mg/kg dry	40.7	0.838	46.2	75-125				QM-07
Barium	57.9	0.400	"	40.7	25.7	79.0	75-125				
Cadmium	1.92	0.200	"	2.04	0.0583	91.5	75-125				
Copper	20.7	0.400	"	40.7	1.17	47.9	75-125				QM-07
Lead	20.0	0.200	"	20.4	3.01	83.3	75-125				
Nickel	21.0	0.400	"	40.7	1.40	48.2	75-125				QM-07
Silver	1.82	0.0200	"	2.04	0.0102	88.6	75-125				
Zinc	24.7	0.400	"	40.7	4.83	48.7	75-125				QM-07
Selenium	4.14	0.260	"	4.07	ND	102	75-125				

**Matrix Spike Dup (BGL0023-MSD1)**

Source: 2311432-01

Prepared: 12/01/23 Analyzed: 12/04/23

Arsenic	19.4	0.200	mg/kg dry	40.7	0.838	45.6	75-125	1.35	25		QM-07
Barium	58.0	0.400	"	40.7	25.7	79.1	75-125	0.0970	25		
Cadmium	1.88	0.200	"	2.04	0.0583	89.6	75-125	1.99	25		
Copper	20.3	0.400	"	40.7	1.17	46.9	75-125	1.94	25		QM-07
Lead	20.0	0.200	"	20.4	3.01	83.5	75-125	0.187	25		
Nickel	20.4	0.400	"	40.7	1.40	46.7	75-125	2.90	25		QM-07
Silver	1.80	0.0200	"	2.04	0.0102	88.0	75-125	0.653	25		
Zinc	24.0	0.400	"	40.7	4.83	47.0	75-125	2.91	25		QM-07
Selenium	4.19	0.260	"	4.07	ND	103	75-125	1.16	25		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1128 - 3060A Mod**

**Blank (BGK1128-BLK1)**

Prepared: 11/30/23 Analyzed: 12/01/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BGK1128-BS1)**

Prepared: 11/30/23 Analyzed: 12/01/23

Chromium, Hexavalent 24.8 0.30 mg/kg wet 25.0 99.4 80-120

**Duplicate (BGK1128-DUP1)**

**Source: 2311504-01**

Prepared: 11/30/23 Analyzed: 12/01/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BGK1128-MS1)**

**Source: 2311504-01**

Prepared: 11/30/23 Analyzed: 12/01/23

Chromium, Hexavalent 26.0 0.30 mg/kg dry 27.8 ND 93.6 75-125

**Matrix Spike Dup (BGK1128-MSD1)**

**Source: 2311504-01**

Prepared: 11/30/23 Analyzed: 12/01/23

Chromium, Hexavalent 26.2 0.30 mg/kg dry 27.8 ND 94.4 75-125 0.851 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 - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

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

**Summit Scientific**

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

**Batch BGK1095 - General Preparation**

**Blank (BGK1095-BLK1)**

Prepared: 11/29/23 Analyzed: 12/02/23

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

**LCS (BGK1095-BS1)**

Prepared: 11/29/23 Analyzed: 12/02/23

Calcium	5.06	0.0500	mg/L wet	5.00	101	70-130				
Magnesium	5.73	0.0500	"	5.00	115	70-130				
Sodium	5.91	0.0500	"	5.00	118	70-130				

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

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

**Summit Scientific**

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

**Batch BGK1146 - General Preparation**


**Duplicate (BGK1146-DUP1)**

**Source: 2310194-07**

**Prepared & Analyzed: 11/30/23**

% Solids	99.4		%		99.4			0.00452	20	
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Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

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

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

**Batch BGK1107 - General Preparation**

**LCS (BGK1107-BS1)**

Prepared & Analyzed: 11/30/23

pH	9.02	pH Units	9.18	98.3	95-105
----	------	----------	------	------	--------

**Duplicate (BGK1107-DUP1)**

Source: 2311335-01

Prepared & Analyzed: 11/30/23

pH	7.99	pH Units	7.99	0.00	20
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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/05/23 16:08

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1149 - General Preparation**

**Blank (BGK1149-BLK1)**

Prepared & Analyzed: 11/30/23

Specific Conductance (EC)      ND      0.0100    mmhos/cm

**LCS (BGK1149-BS1)**

Prepared & Analyzed: 11/30/23

Specific Conductance (EC)      0.158      0.0100    mmhos/cm      0.150      105      95-105

**Duplicate (BGK1149-DUP1)**

**Source: 2311574-01**

Prepared & Analyzed: 11/30/23

Specific Conductance (EC)      2.27      0.0100    mmhos/cm      2.34      2.73      20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/05/23 16:08

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- 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.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 06, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Balboa C20-9X  
Work Order #2311604

Enclosed are the results of analyses for samples received by Summit Scientific on 11/30/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial 'J' and a long horizontal stroke at the end.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S3 WALL 13FT	2311604-01	Soil	11/30/23 00:00	11/30/23 16:30
S-E WALL 13FT	2311604-02	Soil	11/30/23 00:00	11/30/23 16:30
S-W WALL 13FT	2311604-03	Soil	11/30/23 00:00	11/30/23 16:30
SE FLOOR 14FT	2311604-04	Soil	11/30/23 00:00	11/30/23 16:30
BKG 1 13FT	2311604-05	Soil	11/30/23 00:00	11/30/23 16:30
BKG 1 14FT	2311604-06	Soil	11/30/23 00:00	11/30/23 16:30
BKG 2 13FT	2311604-07	Soil	11/30/23 00:00	11/30/23 16:30
BKG 2 14FT	2311604-08	Soil	11/30/23 00:00	11/30/23 16:30
BKG 3 13FT	2311604-09	Soil	11/30/23 00:00	11/30/23 16:30
BKG 3 14FT	2311604-10	Soil	11/30/23 00:00	11/30/23 16:30
BKG 4 13FT	2311604-11	Soil	11/30/23 00:00	11/30/23 16:30
BKG 4 14FT	2311604-12	Soil	11/30/23 00:00	11/30/23 16:30
BKG 5 13FT	2311604-13	Soil	11/30/23 00:00	11/30/23 16:30
BKG 5 14FT	2311604-14	Soil	11/30/23 00:00	11/30/23 16:30
BACKFILL	2311604-15	Soil	11/30/23 00:00	11/30/23 16:30

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2311604	

<b>Send Data To:</b>		<b>Send Invoice To:</b>
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: Chevron
Address: 8305 6th St.	E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip: Wellington, CO, 80549		AFE#:
Phone: 603-477-6907	Project Name: Noble - Belboa C20-9X	PO/Billing Codes: UVRWE-A2516-ARIN
Sampler Name: Ethan Black	Project Number:	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron		TDS, Chloride, Sulfate
1	S3 WALL 13FT	11/30/23		2			X			X			X	X	X	X		
2	S-E WALL 13FT																	
3	S-W WALL 13FT																	
4	SE FLOOR 14FT																	
5	BKG 1 13FT																	
6	BKG 1 14FT																	
7	BKG 2 13FT																	
8	BKG 2 14FT																	
9	BKG 3 13FT																	
10	BKG 3 14FT																	
11	BKG 4 13FT																	
12	BKG 4 14FT																	
13	BKG 5 13FT																	
14	BKG 5 14FT																	
15	BACKFILL												X	X	X	X		

Relinquished by: <i>Ethan Black</i>	Date/Time: 11/30/23 1420	Received by: S2 - North Office	Date/Time: 11/30/23 1420	TAT Business Days	Field DO	Notes: Send PAH ASAP, please. Thanks.
Relinquished by: S2	Date/Time: 11/30/23 1630	Received by: <i>[Signature]</i>	Date/Time: 11/30/23 1430	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 8.3	Corrected Temperature: <i>[Symbol]</i>	IR gun #:		Standard	Field Turb.	
				HNO3 lot #:		

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2311604

Client: Fremont

Client Project ID: Noble-Bulbrea C20-9X

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

Airbill #: \_\_\_\_\_

-

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C) 8.3

Thermometer # 1

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

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

AS

Custodian Printed Name

11/30/23  
Date/Time

11/30/23



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**S3 WALL 13FT**  
**2311604-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK1163	11/30/23	11/30/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0372	93.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0427	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	55	50	mg/kg	1	BGK1162	11/30/23	12/01/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.4	91.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**S3 WALL 13FT**  
**2311604-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0012	12/01/23	12/02/23	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: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0171	51.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0198	59.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**S3 WALL 13FT**  
**2311604-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.75	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B
Barium	52.2	0.400	"	"	"	"	"	"
Cadmium	0.396	0.200	"	"	"	"	"	"
Copper	4.30	0.400	"	"	"	"	"	"
Lead	14.0	0.200	"	"	"	"	"	"
Nickel	4.18	0.400	"	"	"	"	"	"
Silver	0.0641	0.0200	"	"	"	"	"	"
Zinc	18.2	0.400	"	"	"	"	"	"
Selenium	0.495	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	112	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	96.1	0.0500	"	"	"	"	"	"	
Sodium	361	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.04	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/30/23 00:00

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**S3 WALL 13FT**  
**2311604-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	79.2	%	1	BGL0024	12/01/23	12/01/23	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.02	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**S-E WALL 13FT**  
**2311604-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK1163	11/30/23	11/30/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0386	96.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK1162	11/30/23	11/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.3	82.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**S-E WALL 13FT**  
**2311604-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0012	12/01/23	12/02/23	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: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0204	61.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

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

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**S-E WALL 13FT**  
**2311604-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.07	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B
Barium	39.1	0.400	"	"	"	"	"	"
Cadmium	0.376	0.200	"	"	"	"	"	"
Copper	4.15	0.400	"	"	"	"	"	"
Lead	17.9	0.200	"	"	"	"	"	"
Nickel	3.61	0.400	"	"	"	"	"	"
Silver	0.0671	0.0200	"	"	"	"	"	"
Zinc	19.4	0.400	"	"	"	"	"	"
Selenium	0.406	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.8	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	33.9	0.0500	"	"	"	"	"	"	
Sodium	270	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.34	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/30/23 00:00

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

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**S-E WALL 13FT  
 2311604-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	82.8	%	1	BGL0024	12/01/23	12/01/23	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.47	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**S-W WALL 13FT**  
**2311604-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK1163	11/30/23	11/30/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK1162	11/30/23	11/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.83	78.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**S-W WALL 13FT**  
**2311604-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0012	12/01/23	12/02/23	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: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0212	63.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

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

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**S-W WALL 13FT**  
**2311604-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.33	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B
Barium	30.6	0.400	"	"	"	"	"	"
Cadmium	0.315	0.200	"	"	"	"	"	"
Copper	4.36	0.400	"	"	"	"	"	"
Lead	17.0	0.200	"	"	"	"	"	"
Nickel	2.79	0.400	"	"	"	"	"	"
Silver	0.0667	0.0200	"	"	"	"	"	"
Zinc	15.9	0.400	"	"	"	"	"	"
Selenium	0.463	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	66.3	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	53.1	0.0500	"	"	"	"	"	"	
Sodium	321	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.13	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**S-W WALL 13FT  
 2311604-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	82.2	%	1	BGL0024	12/01/23	12/01/23	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/30/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.19	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**SE FLOOR 14FT**  
**2311604-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK1163	11/30/23	11/30/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK1162	11/30/23	11/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.0	95.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**SE FLOOR 14FT**  
**2311604-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0012	12/01/23	12/02/23	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: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0162	48.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0163	49.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**SE FLOOR 14FT**  
**2311604-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.67	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B
Barium	28.1	0.400	"	"	"	"	"	"
Cadmium	0.218	0.200	"	"	"	"	"	"
Copper	2.50	0.400	"	"	"	"	"	"
Lead	14.1	0.200	"	"	"	"	"	"
Nickel	2.44	0.400	"	"	"	"	"	"
Silver	0.0455	0.0200	"	"	"	"	"	"
Zinc	13.0	0.400	"	"	"	"	"	"
Selenium	0.549	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.5	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	19.7	0.0500	"	"	"	"	"	"	
Sodium	208	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.46	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**SE FLOOR 14FT  
 2311604-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	85.3	%	1	BGL0024	12/01/23	12/01/23	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.14	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 1 13FT**  
**2311604-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>1.93</b>	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	<b>119</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.373</b>	0.200	"	"	"	"	"	"	
Copper	<b>4.34</b>	0.400	"	"	"	"	"	"	
Lead	<b>12.8</b>	0.200	"	"	"	"	"	"	
Nickel	<b>4.30</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0522</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>20.9</b>	0.400	"	"	"	"	"	"	
Selenium	<b>0.466</b>	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>76.5</b>	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	<b>93.0</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>365</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Fremont Environmental  
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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 1 13FT**  
**2311604-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.63	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.2		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.63	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 1 14FT**  
**2311604-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.57	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	53.3	0.400	"	"	"	"	"	"	
Cadmium	0.334	0.200	"	"	"	"	"	"	
Copper	2.96	0.400	"	"	"	"	"	"	
Lead	9.26	0.200	"	"	"	"	"	"	
Nickel	3.02	0.400	"	"	"	"	"	"	
Silver	0.0413	0.0200	"	"	"	"	"	"	
Zinc	14.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	29.1	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	26.5	0.0500	"	"	"	"	"	"	
Sodium	150	0.0500	"	"	"	"	"	"	

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 1 14FT**  
**2311604-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.84	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.2		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.904	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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PO Box 1289  
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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 2 13FT**  
**2311604-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.86	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	31.9	0.400	"	"	"	"	"	"	
Cadmium	0.314	0.200	"	"	"	"	"	"	
Copper	3.86	0.400	"	"	"	"	"	"	
Lead	16.6	0.200	"	"	"	"	"	"	
Nickel	3.04	0.400	"	"	"	"	"	"	
Silver	0.0685	0.0200	"	"	"	"	"	"	
Zinc	18.8	0.400	"	"	"	"	"	"	
Selenium	0.499	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	76.5	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	60.0	0.0500	"	"	"	"	"	"	
Sodium	336	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**BKG 2 13FT**  
**2311604-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.99	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.8		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.30	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 2 14FT**  
**2311604-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.49	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	67.7	0.400	"	"	"	"	"	"	
Cadmium	0.392	0.200	"	"	"	"	"	"	
Copper	3.67	0.400	"	"	"	"	"	"	
Lead	10.2	0.200	"	"	"	"	"	"	
Nickel	3.67	0.400	"	"	"	"	"	"	
Silver	0.0685	0.0200	"	"	"	"	"	"	
Zinc	15.4	0.400	"	"	"	"	"	"	
Selenium	0.539	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	109	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	96.0	0.0500	"	"	"	"	"	"	
Sodium	351	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**BKG 2 14FT**  
**2311604-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.91	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.93	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 3 13FT**  
**2311604-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.74	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	103	0.400	"	"	"	"	"	"	
Cadmium	0.479	0.200	"	"	"	"	"	"	
Copper	4.03	0.400	"	"	"	"	"	"	
Lead	17.3	0.200	"	"	"	"	"	"	
Nickel	4.95	0.400	"	"	"	"	"	"	
Silver	0.0741	0.0200	"	"	"	"	"	"	
Zinc	18.8	0.400	"	"	"	"	"	"	
Selenium	0.420	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	283	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	112	0.0500	"	"	"	"	"	"	
Sodium	104	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Balboa C20-9X  
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Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 3 13FT**  
**2311604-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.32	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.1		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.70		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.879	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 3 14FT**  
**2311604-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.87	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	57.4	0.400	"	"	"	"	"	"	
Cadmium	0.292	0.200	"	"	"	"	"	"	
Copper	2.59	0.400	"	"	"	"	"	"	
Lead	11.3	0.200	"	"	"	"	"	"	
Nickel	3.17	0.400	"	"	"	"	"	"	
Silver	0.0431	0.0200	"	"	"	"	"	"	
Zinc	14.7	0.400	"	"	"	"	"	"	
Selenium	0.305	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	14.7	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	17.0	0.0500	"	"	"	"	"	"	
Sodium	235	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 3 14FT**  
**2311604-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.90	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.420	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 4 13FT**  
**2311604-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.96	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	33.7	0.400	"	"	"	"	"	"	
Cadmium	0.284	0.200	"	"	"	"	"	"	
Copper	3.43	0.400	"	"	"	"	"	"	
Lead	16.4	0.200	"	"	"	"	"	"	
Nickel	2.90	0.400	"	"	"	"	"	"	
Silver	0.0630	0.0200	"	"	"	"	"	"	
Zinc	16.6	0.400	"	"	"	"	"	"	
Selenium	0.493	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	25.0	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	26.3	0.0500	"	"	"	"	"	"	
Sodium	259	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 4 13FT**  
**2311604-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.63	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.39	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 4 14FT**  
**2311604-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.36	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	28.6	0.400	"	"	"	"	"	"	
Cadmium	0.248	0.200	"	"	"	"	"	"	
Copper	3.07	0.400	"	"	"	"	"	"	
Lead	7.60	0.200	"	"	"	"	"	"	
Nickel	2.58	0.400	"	"	"	"	"	"	
Silver	0.0351	0.0200	"	"	"	"	"	"	
Zinc	13.9	0.400	"	"	"	"	"	"	
Selenium	0.268	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	12.3	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	10.4	0.0500	"	"	"	"	"	"	
Sodium	123	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**BKG 4 14FT**  
**2311604-12 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.24	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.2		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.504	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 5 13FT**  
**2311604-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.75	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	141	0.400	"	"	"	"	"	"	
Cadmium	0.368	0.200	"	"	"	"	"	"	
Copper	3.59	0.400	"	"	"	"	"	"	
Lead	13.1	0.200	"	"	"	"	"	"	
Nickel	3.18	0.400	"	"	"	"	"	"	
Silver	0.0584	0.0200	"	"	"	"	"	"	
Zinc	15.7	0.400	"	"	"	"	"	"	
Selenium	0.823	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	453	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	140	0.0500	"	"	"	"	"	"	
Sodium	208	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Balboa C20-9X  
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 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**BKG 5 13FT**  
**2311604-13 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.19	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.8		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 5 14FT**  
**2311604-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.07	0.200		mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	44.5	0.400		"	"	"	"	"	"	
Cadmium	0.360	0.200		"	"	"	"	"	"	
Copper	2.49	0.400		"	"	"	"	"	"	
Lead	15.3	0.200		"	"	"	"	"	"	
Nickel	3.06	0.400		"	"	"	"	"	"	
Silver	0.0430	0.0200		"	"	"	"	"	"	
Zinc	15.3	0.400		"	"	"	"	"	"	
Selenium	0.588	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	15.3	0.0500		mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	16.2	0.0500		"	"	"	"	"	"	
Sodium	227	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Balboa C20-9X  
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Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BKG 5 14FT**  
**2311604-14 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.64	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.35	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BACKFILL**  
**2311604-15 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

**BTL-01**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK1163	11/30/23	11/30/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0395	98.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0426	106 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

**BTL-01**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK1162	11/30/23	11/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.2	89.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BACKFILL**  
**2311604-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0012	12/01/23	12/02/23	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: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0173	51.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0186	55.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0020	12/01/23	12/05/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

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

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**BACKFILL**  
**2311604-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.931	0.200	mg/kg dry	1	BGL0034	12/01/23	12/05/23	EPA 6020B	
Barium	53.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.99	0.400	"	"	"	"	"	"	
Lead	5.10	0.200	"	"	"	"	"	"	
Nickel	2.17	0.400	"	"	"	"	"	"	
Silver	0.0317	0.0200	"	"	"	"	"	"	
Zinc	8.10	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0029	12/01/23	12/01/23	EPA 7196A	

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

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.6	0.0500	mg/L dry	1	BGK1164	11/30/23	12/03/23	EPA 6020B	
Magnesium	13.4	0.0500	"	"	"	"	"	"	
Sodium	25.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.789	0.00100	units	1	BGL0070	12/04/23	12/04/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**BACKFILL**  
**2311604-15 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BGL0024	12/01/23	12/01/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.77		pH Units	1	BGL0001	12/01/23	12/04/23	EPA 9045D	

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.436	0.0100	mmhos/cm	1	BGL0118	12/04/23	12/04/23	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BGK1163 - EPA 5030 Soil MS

##### Blank (BGK1163-BLK1)

Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0374		"	0.0400		93.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400		99.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0429		"	0.0400		107	50-150			

##### LCS (BGK1163-BS1)

Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	0.137	0.0020	mg/kg	0.150		91.3	70-130			
Toluene	0.139	0.0050	"	0.150		92.7	70-130			
Ethylbenzene	0.142	0.0050	"	0.150		95.0	70-130			
m,p-Xylene	0.284	0.010	"	0.300		94.6	70-130			
o-Xylene	0.145	0.0050	"	0.150		96.7	70-130			
1,2,4-Trimethylbenzene	0.143	0.0050	"	0.150		95.4	70-130			
1,3,5-Trimethylbenzene	0.144	0.0050	"	0.150		96.0	70-130			
Naphthalene	0.119	0.0038	"	0.150		79.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0366		"	0.0400		91.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0394		"	0.0400		98.6	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0416		"	0.0400		104	50-150			

##### Matrix Spike (BGK1163-MS1)

Source: 2311604-01

Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	0.125	0.0020	mg/kg	0.150	ND	83.3	70-130			
Toluene	0.130	0.0050	"	0.150	ND	86.6	70-130			
Ethylbenzene	0.129	0.0050	"	0.150	ND	85.8	70-130			
m,p-Xylene	0.258	0.010	"	0.300	ND	86.0	70-130			
o-Xylene	0.134	0.0050	"	0.150	ND	89.4	70-130			
1,2,4-Trimethylbenzene	0.133	0.0050	"	0.150	ND	88.9	70-130			
1,3,5-Trimethylbenzene	0.134	0.0050	"	0.150	ND	89.2	70-130			
Naphthalene	0.120	0.0038	"	0.150	ND	79.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0376		"	0.0400		94.1	50-150			
<i>Surrogate: Toluene-d8</i>	0.0399		"	0.0400		99.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0413		"	0.0400		103	50-150			

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

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

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

**Batch BGK1163 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGK1163-MSD1)</b>	<b>Source: 2311604-01</b>			Prepared: 11/30/23 Analyzed: 12/01/23						
Benzene	0.120	0.0020	mg/kg	0.150	ND	80.3	70-130	3.67	30	
Toluene	0.123	0.0050	"	0.150	ND	81.9	70-130	5.58	30	
Ethylbenzene	0.127	0.0050	"	0.150	ND	84.6	70-130	1.48	30	
m,p-Xylene	0.255	0.010	"	0.300	ND	85.1	70-130	1.05	30	
o-Xylene	0.132	0.0050	"	0.150	ND	87.8	70-130	1.78	30	
1,2,4-Trimethylbenzene	0.132	0.0050	"	0.150	ND	87.8	70-130	1.29	30	
1,3,5-Trimethylbenzene	0.132	0.0050	"	0.150	ND	87.7	70-130	1.67	30	
Naphthalene	0.123	0.0038	"	0.150	ND	82.2	70-130	3.09	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.6</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0420</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			

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 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1162 - EPA 3550A**

**Blank (BGK1162-BLK1)**

Prepared: 11/30/23 Analyzed: 12/01/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	17.3		"	12.5		138	30-150			

**LCS (BGK1162-BS1)**

Prepared: 11/30/23 Analyzed: 12/01/23

C10-C28 (DRO)	634	50	mg/kg	500		127	70-130			
Surrogate: <i>o</i> -Terphenyl	16.3		"	12.5		131	30-150			

**Matrix Spike (BGK1162-MS1)**

Source: 2311604-01

Prepared: 11/30/23 Analyzed: 12/01/23

C10-C28 (DRO)	582	50	mg/kg	500	54.7	105	70-130			
Surrogate: <i>o</i> -Terphenyl	9.27		"	12.5		74.2	30-150			

**Matrix Spike Dup (BGK1162-MSD1)**

Source: 2311604-01

Prepared: 11/30/23 Analyzed: 12/01/23

C10-C28 (DRO)	687	50	mg/kg	500	54.7	126	70-130	16.5	20	QM-07
Surrogate: <i>o</i> -Terphenyl	10.2		"	12.5		81.9	30-150			

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**PAH by EPA Method 8270D SIM - Quality Control**  
**Summit Scientific**

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

**Batch BGL0012 - EPA 5030 Soil MS**

**Blank (BGL0012-BLK1)**

Prepared & Analyzed: 12/01/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0313</i>		"	<i>0.0333</i>		<i>93.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0302</i>		"	<i>0.0333</i>		<i>90.5</i>	<i>40-150</i>			

**LCS (BGL0012-BS1)**

Prepared & Analyzed: 12/01/23

Acenaphthene	0.0302	0.00500	mg/kg	0.0333		90.5	31-137			
Anthracene	0.0327	0.00500	"	0.0333		98.1	30-120			
Benzo (a) anthracene	0.0300	0.00500	"	0.0333		90.0	30-120			
Benzo (a) pyrene	0.0271	0.00500	"	0.0333		81.4	30-120			
Benzo (b) fluoranthene	0.0283	0.00500	"	0.0333		84.9	30-120			
Benzo (k) fluoranthene	0.0307	0.00500	"	0.0333		92.2	30-120			
Chrysene	0.0330	0.00500	"	0.0333		99.0	30-120			
Dibenz (a,h) anthracene	0.0254	0.00500	"	0.0333		76.3	30-120			
Fluoranthene	0.0328	0.00500	"	0.0333		98.5	30-120			
Fluorene	0.0282	0.00500	"	0.0333		84.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0254	0.00500	"	0.0333		76.3	30-120			
Pyrene	0.0347	0.00500	"	0.0333		104	35-142			
1-Methylnaphthalene	0.0368	0.00500	"	0.0333		110	35-142			
2-Methylnaphthalene	0.0354	0.00500	"	0.0333		106	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0247</i>		"	<i>0.0333</i>		<i>74.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0323</i>		"	<i>0.0333</i>		<i>96.9</i>	<i>40-150</i>			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGL0012 - EPA 5030 Soil MS**

**Matrix Spike (BGL0012-MS1)**

Source: 2311500-21

Prepared & Analyzed: 12/01/23

Acenaphthene	0.0155	0.00500	mg/kg	0.0333	ND	46.6	31-137			
Anthracene	0.0196	0.00500	"	0.0333	ND	58.7	30-120			
Benzo (a) anthracene	0.0184	0.00500	"	0.0333	ND	55.3	30-120			
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.8	30-120			
Benzo (b) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.4	30-120			
Benzo (k) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.1	30-120			
Chrysene	0.0149	0.00500	"	0.0333	ND	44.7	30-120			
Dibenz (a,h) anthracene	0.0147	0.00500	"	0.0333	ND	44.1	30-120			
Fluoranthene	0.0159	0.00500	"	0.0333	ND	47.8	30-120			
Fluorene	0.0172	0.00500	"	0.0333	ND	51.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0174	0.00500	"	0.0333	ND	52.3	30-120			
Pyrene	0.0198	0.00500	"	0.0333	ND	59.5	35-142			
1-Methylnaphthalene	0.0243	0.00500	"	0.0333	ND	73.0	15-130			
2-Methylnaphthalene	0.0254	0.00500	"	0.0333	ND	76.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0158		"	0.0333		47.5	40-150			
Surrogate: Fluoranthene-d10	0.0159		"	0.0333		47.6	40-150			

**Matrix Spike Dup (BGL0012-MSD1)**

Source: 2311500-21

Prepared & Analyzed: 12/01/23

Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	55.0	31-137	16.4	30
Anthracene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	9.74	30
Benzo (a) anthracene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	14.9	30
Benzo (a) pyrene	0.0255	0.00500	"	0.0333	ND	76.5	30-120	16.5	30
Benzo (b) fluoranthene	0.0215	0.00500	"	0.0333	ND	64.4	30-120	13.3	30
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	13.0	30
Chrysene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	13.2	30
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	14.4	30
Fluoranthene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	15.1	30
Fluorene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	7.89	30
Indeno (1,2,3-cd) pyrene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	22.0	30
Pyrene	0.0238	0.00500	"	0.0333	ND	71.3	35-142	18.0	30
1-Methylnaphthalene	0.0240	0.00500	"	0.0333	ND	72.1	15-130	1.24	50
2-Methylnaphthalene	0.0249	0.00500	"	0.0333	ND	74.8	15-130	2.01	50
Surrogate: 2-Methylnaphthalene-d10	0.0177		"	0.0333		53.0	40-150		
Surrogate: Fluoranthene-d10	0.0183		"	0.0333		55.0	40-150		

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

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

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

**Batch BGL0020 - EPA 3050B**

**Blank (BGL0020-BLK1)**

Prepared: 12/01/23 Analyzed: 12/05/23

Boron ND 2.00 mg/L

**LCS (BGL0020-BS1)**

Prepared: 12/01/23 Analyzed: 12/05/23

Boron 4.78 2.00 mg/L 5.00 95.7 80-120

**Duplicate (BGL0020-DUP1)**

**Source: 2311509-03**

Prepared: 12/01/23 Analyzed: 12/05/23

Boron 0.422 2.00 mg/L 0.338 22.1 20 QR-01

**Matrix Spike (BGL0020-MS1)**

**Source: 2311509-03**

Prepared: 12/01/23 Analyzed: 12/05/23

Boron 5.45 2.00 mg/L 5.00 0.338 102 75-125

**Matrix Spike Dup (BGL0020-MSD1)**

**Source: 2311509-03**

Prepared: 12/01/23 Analyzed: 12/05/23

Boron 5.72 2.00 mg/L 5.00 0.338 108 75-125 4.93 25

Summit Scientific

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Wellington CO, 80549

Project: Noble - Balboa C20-9X  
Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGL0034 - EPA 3050B**

**Blank (BGL0034-BLK1)**

Prepared: 12/01/23 Analyzed: 12/05/23

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

**LCS (BGL0034-BS1)**

Prepared: 12/01/23 Analyzed: 12/05/23

Arsenic	46.9	0.200	mg/kg wet	40.0	117	80-120
Barium	46.7	0.400	"	40.0	117	80-120
Cadmium	2.37	0.200	"	2.00	119	80-120
Copper	48.1	0.400	"	40.0	120	80-120
Lead	23.0	0.200	"	20.0	115	80-120
Nickel	48.0	0.400	"	40.0	120	80-120
Silver	2.27	0.0200	"	2.00	114	80-120
Zinc	41.4	0.400	"	40.0	103	80-120
Selenium	4.32	0.260	"	4.00	108	80-120

**Duplicate (BGL0034-DUP1)**

Source: 2311468-01

Prepared: 12/01/23 Analyzed: 12/05/23

Arsenic	0.768	0.200	mg/kg dry	0.805	4.76	20	
Barium	34.9	0.400	"	17.0	69.1	20	QR-04
Cadmium	0.165	0.200	"	0.131	23.1	20	QR-01
Copper	3.12	0.400	"	2.85	8.91	20	
Lead	6.27	0.200	"	6.10	2.85	20	
Nickel	3.40	0.400	"	3.23	4.98	20	
Silver	0.0206	0.0200	"	0.0178	15.0	20	
Zinc	13.8	0.400	"	13.7	0.728	20	
Selenium	ND	0.260	"	ND		20	

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 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGL0034 - EPA 3050B**

**Matrix Spike (BGL0034-MS1)**

Source: 2311468-01

Prepared: 12/01/23 Analyzed: 12/05/23

Arsenic	16.8	0.200	mg/kg dry	48.0	0.805	33.3	75-125				QM-07
Barium	111	0.400	"	48.0	17.0	197	75-125				QM-07
Cadmium	3.29	0.200	"	2.40	0.131	132	75-125				QM-07
Copper	19.4	0.400	"	48.0	2.85	34.4	75-125				QM-07
Lead	33.3	0.200	"	24.0	6.10	113	75-125				
Nickel	20.2	0.400	"	48.0	3.23	35.4	75-125				QM-07
Silver	2.82	0.0200	"	2.40	0.0178	117	75-125				
Zinc	30.3	0.400	"	48.0	13.7	34.5	75-125				QM-07
Selenium	6.07	0.260	"	4.80	ND	126	75-125				QM-07

**Matrix Spike Dup (BGL0034-MSD1)**

Source: 2311468-01

Prepared: 12/01/23 Analyzed: 12/05/23

Arsenic	16.5	0.200	mg/kg dry	48.0	0.805	32.8	75-125	1.60	25		QM-07
Barium	97.4	0.400	"	48.0	17.0	168	75-125	13.3	25		QM-07
Cadmium	2.92	0.200	"	2.40	0.131	116	75-125	11.8	25		
Copper	18.9	0.400	"	48.0	2.85	33.4	75-125	2.46	25		QM-07
Lead	30.2	0.200	"	24.0	6.10	100	75-125	9.95	25		
Nickel	19.6	0.400	"	48.0	3.23	34.2	75-125	3.01	25		QM-07
Silver	2.57	0.0200	"	2.40	0.0178	106	75-125	8.96	25		
Zinc	29.6	0.400	"	48.0	13.7	33.0	75-125	2.38	25		QM-07
Selenium	5.42	0.260	"	4.80	ND	113	75-125	11.3	25		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGL0029 - 3060A Mod**

**Blank (BGL0029-BLK1)**

Prepared & Analyzed: 12/01/23

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BGL0029-BS1)**

Prepared & Analyzed: 12/01/23

Chromium, Hexavalent      26.8      0.30 mg/kg wet      25.0      107      80-120

**Duplicate (BGL0029-DUP1)**

**Source: 2311349-01**

Prepared & Analyzed: 12/01/23

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BGL0029-MS1)**

**Source: 2311349-01**

Prepared & Analyzed: 12/01/23

Chromium, Hexavalent      28.4      0.30 mg/kg dry      27.9      ND      102      75-125

**Matrix Spike Dup (BGL0029-MSD1)**

**Source: 2311349-01**

Prepared & Analyzed: 12/01/23

Chromium, Hexavalent      27.7      0.30 mg/kg dry      27.9      ND      99.2      75-125      2.59      20

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

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

**Summit Scientific**

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

**Batch BGK1164 - General Preparation**

**Blank (BGK1164-BLK1)**

Prepared: 11/30/23 Analyzed: 12/03/23

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

**LCS (BGK1164-BS1)**

Prepared: 11/30/23 Analyzed: 12/03/23

Calcium	5.19	0.0500	mg/L wet	5.00		104	70-130			
Magnesium	5.55	0.0500	"	5.00		111	70-130			
Sodium	5.78	0.0500	"	5.00		116	70-130			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

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

**Summit Scientific**

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

**Batch BGL0024 - General Preparation**


**Duplicate (BGL0024-DUP1)**

**Source: 2311513-01**

**Prepared & Analyzed: 12/01/23**

% Solids	79.5		%		77.3			2.84		20	
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Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

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

**Summit Scientific**

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

**Batch BGL0001 - General Preparation**

**LCS (BGL0001-BS1)**

Prepared: 12/01/23 Analyzed: 12/04/23

pH	9.00		pH Units	9.18		98.0	95-105			
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**Duplicate (BGL0001-DUP1)**

Source: 2311455-01

Prepared: 12/01/23 Analyzed: 12/04/23

pH	8.47		pH Units	8.47		0.00	20			
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Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Balboa C20-9X  
 Project Number: UWRWE-A2516-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 12/06/23 16:27

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013 - Quality Control**  
**Summit Scientific**

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

**Batch BGL0118 - General Preparation**

**Blank (BGL0118-BLK1)**

Prepared & Analyzed: 12/04/23

Specific Conductance (EC)      ND      0.0100    mmhos/cm

**LCS (BGL0118-BS1)**

Prepared & Analyzed: 12/04/23

Specific Conductance (EC)      0.154      0.0100    mmhos/cm      0.150      103      95-105

**Duplicate (BGL0118-DUP1)**

**Source: 2311604-01**

Prepared & Analyzed: 12/04/23

Specific Conductance (EC)      1.93      0.0100    mmhos/cm      2.02      4.51      20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Balboa C20-9X

Project Number: UWRWE-A2516-ABN  
Project Manager: Paul Henchan

**Reported:**  
12/06/23 16:27

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- 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.
- BTL-01 Sample supplied in improper container.
- 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