

FREMONT ENVIRONMENTAL INC.

July 13, 2024

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

Subject: **Excavation Report**
Webster 15-28 (Wellhead)
API # 05-123-12690
SWSE Sec. 28, T6N, R64W
Weld County, Colorado
Fremont Project No. C022-026
Facility # 244895, Remediation # 20954

Dear Mr. Peterson:

Enclosed please find a copy of the above-referenced Excavation Report for the Webster 15-28 former wellhead location in Weld County, Colorado. The enclosed report describes excavation and sampling efforts 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.



Ethan D. Black, PG
Consultant

Enclosure

EXCAVATION REPORT

NOBLE ENERGY INC.

WEBSTER 15-28 (WELLHEAD)

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-026

FACILITY # 244895, REMEDIATION # 20954

Prepared by:

Fremont Environmental Inc.

1759 Redwing Lane

Broomfield, CO 80020

(303) 956-8714

July 13, 2024

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EXCAVATION REPORT
NOBLE ENERGY INC.
WEBSTER 15-28 (WELLHEAD)
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-026
FACILITY # 244895, REMEDIATION # 20954

1.0 INTRODUCTION

The purpose of this document is to present information collected during the single-day excavation of soils at the Webster 15-28 former wellhead (Webster) location in Weld County, Colorado. This excavation project was completed on March 7, 2024.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Webster wellhead is located approximately 0.75 miles southwest of Gill, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.43 miles northwest of the intersection of County Road 64 and County Road 51. The location is further described as the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 28, Township 6N, Range 64W.

2.2 Site History

The site consists of the wellhead for the Webster 15-28 natural gas well. The Webster 15-28 well was drilled in 1986 to a depth of approximately 6,980 feet.

A historical release was discovered in February 2022, by Eagle Environmental Consulting, Inc. during plugging and abandonment activities at the Webster wellhead. The project was transferred to Fremont Environmental, Inc. and a site investigation to determine the extent of soil impacts was undertaken on April 15, 2022. Groundwater was encountered at that time and five monitoring wells were installed. Subsequently,

excavation was undertaken to address the remaining impacts observed in the vadose zone during the site investigation.

3.0 FIELD ACTIVITIES

3.1 Soil Excavation and Sampling

Soil remediation efforts consisted of the excavation and disposal of petroleum-impacted soil at and adjacent to the former Webster wellhead location. Generally, the subsurface consists of sandy silt extending approximately eight feet below ground surface (bgs) which was underlain by poorly graded sand to at least nine feet bgs. Groundwater flowed into the excavation limiting the depth of the excavation to nine feet bgs. The excavation extent is illustrated on Figure 2.

The single-day excavation was completed at the Webster on March 7, 2024. Soil samples were collected as grab samples from the excavation sidewalls at eight feet bgs and from the excavation floor at nine feet bgs.

The soil samples were analyzed by Summit Scientific, Inc. in Golden, Colorado for benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene (TMB), Total Petroleum Hydrocarbons - Gasoline Range Organics (TPH-GRO) by EPA method 8260B, TPH - Diesel Range Organics (TPH-DRO), Extended Range Organics (TPH-ORO) by EPA method 8015, Polycyclic Aromatic Hydrocarbons (PAH): Acenaphthene, Anthracene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Chrysene, Dibenzo (a,h) anthracene, Fluoranthene, Fluorene, Indeno (1,2,3-cd) pyrene, Pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene by EPA method 8270D, Total Metals by EPA method 6020B, and Hexavalent Chromium by EPA method 7196, sodium absorption ratio (SAR) by EPA 6020/USDA60 6(2) saturated paste extraction method, specific conductance by EPA Method 120.1 saturated paste extraction and pH by APHA/ASTM/EPA Methods,

Saturated Paste Extraction. The laboratory reports and chain-of-custody documentation are included in Appendix B.

A summary of the laboratory data for the soil samples is included in Tables 1 through 5. The laboratory analyses indicate that organic petroleum constituents in soil samples collected from the sidewalls and floor of the excavation achieved the Colorado Energy and Carbon Management Commission's (ECMC) Table 915-1 protection of groundwater soil screening levels (PGSSLs). However, arsenic exceeded the ECMC Table 915-1 residential soil screening levels (RSSLs) and barium exceeded the ECMC PGSSLs.

Five background samples, collected at similar depths and lithologies, in native soil off site, adjacent to the former Webster wellhead also exceeded the ECMC Table 915-1 RSSLs for arsenic.

A total of approximately 70 cubic yards of petroleum-impacted soil were removed via excavation by Tasman Geoscience, Inc. from the location. Impacted soil was disposed of at North Weld Landfill in Ault, CO as non-hazardous waste. The excavation was backfilled with clean imported soil.

3.2 Groundwater Sampling

A groundwater sample (W1) was collected from the floor of the excavation at a depth of nine feet, and submitted to Summit Scientific, Inc. in Golden, Colorado for the analyses of organic petroleum constituents benzene, toluene, ethylbenzene, xylenes (BTEX), 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene and naphthalene by EPA Method 8260B.

The laboratory analysis indicated that the groundwater sample achieved the ECMC Table 915-1 organic standards. The groundwater chemistry is shown on Figure 3 and the

analytical data are summarized in Table 5. A copy of the laboratory's report is presented in Appendix B.

One monitoring well, MW-2, was destroyed during the excavation but was replaced on April 11, 2024.

4.0 DISCUSSION

As demonstrated by the soil sampling, petroleum-impacted soil was removed from the Webster location by excavation. This was confirmed by analysis of soil samples collected from the exterior sidewalls and the floor, which were below the ECMC Table 915-1 PGSSLs for organic petroleum constituents upon completion of the excavation. Groundwater, collected from the excavation floor, also achieved the ECMC Table 915-1 standards. Approximately 70 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.

The operator will conduct quarterly groundwater sampling events to address dissolved phase benzene impacts initially observed in MW-2 during the April 15, 2022 site investigation. The Operator proposes to discontinue 1-and-2 methylnaphthalene sampling in groundwater since the soil impacts were removed during the excavation. The Operator proposes to add an analysis of dissolved arsenic, and dissolved barium to the quarterly groundwater monitoring work plan to address residual concentrations of the elevated metals.

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.**



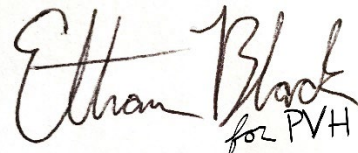
7/13/24

Date_____

Ethan D. Black, P.G.

Geologist

Reviewed by:



7/13/24

Date_____

Paul V. Henahan, P.E.

Senior Consultant

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
MW-1 16ft	04/15/2022	16	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-1 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	0.56	<50	<50
MW-2 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	6.2	370	<50
MW-2 8ft	04/15/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	8.5	<50	<50
MW-3 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-3 8ft	04/15/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-4 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-4 8ft	04/15/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-5 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-5 8ft	04/15/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-6 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-6 8ft	04/15/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
BACKFILL	03/07/2024	Grab	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FLOOR 9FT	03/07/2024	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SS-NE 8FT	03/07/2024	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SS-NW 8FT	03/07/2024	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SS-SE 8FT	03/07/2024	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SS-SW 8FT	03/07/2024	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	2.1	<50	<50

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

NA - Not analyzed

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

= Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

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
MW-1 16ft	4/15/2022	16	<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
MW-1 2ft	4/15/2022	2	<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
MW-2 2ft	4/15/2022	2	0.00888	0.015	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00751
MW-2 8ft	4/15/2022	8	0.0146	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0305
MW-3 2ft	4/15/2022	2	<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
MW-3 8ft	4/15/2022	8	<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
MW-4 2ft	4/15/2022	2	<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
MW-4 8ft	4/15/2022	8	<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
MW-5 2ft	4/15/2022	2	<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
MW-5 8ft	4/15/2022	8	<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
SB-6 2ft	4/15/2022	2	<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
SB-6 8ft	4/15/2022	8	<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	03/07/2024	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
FLOOR 9FT	03/07/2024	9	<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-NE 8FT	03/07/2024	8	<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-NW 8FT	03/07/2024	8	<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-SE 8FT	03/07/2024	8	<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-SW 8FT	03/07/2024	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BACKFILL	03/07/2024	Grab	8.01	0.22	0.103	<2.00
FLOOR 9FT	03/07/2024	9	8.2	0.396	1.34	<2.00
SS-NE 8FT	03/07/2024	8	8.21	0.387	0.622	<2.00
SS-NW 8FT	03/07/2024	8	8.22	0.7	1.59	<2.00
SS-SE 8FT	03/07/2024	8	8.28	0.619	2.31	<2.00
SS-SW 8FT	03/07/2024	8	8.05	0.4	1.69	<2.00
BKG 1 3FT	04/11/2024	3	8.14	3.44	1.9	<2.00
BKG 1 8FT	04/11/2024	8	8.27	2.04	1.86	<2.00
BKG 2 3FT	04/11/2024	3	8.41	0.751	1.63	<2.00
BKG 2 8FT	04/11/2024	8	8.66	1.36	2.77	<2.00
BKG 3 3FT	04/11/2024	3	8.52	1.06	1.05	<2.00
BKG 3 8FT	04/11/2024	8	7.8	0.939	0.794	<2.00
BKG 4 3FT	04/11/2024	3	8.08	1.88	1.63	<2.00
BKG 4 8FT	04/11/2024	8	8.43	2.67	2.74	<2.00
BKG 5 3FT	04/11/2024	3	8.43	1.28	2.82	<2.00
BKG 5 8FT	04/11/2024	8	8.29	0.747	1.45	<2.00
MW-6 4FT	04/11/2024	4	8.41	1.24	2.32	<2.00
Maximum Root Background Concentration (0 - 3 ft)			8.52	NA	NA	NA
Average Root Background Concentration (0 - 3 ft)			8.33	NA	NA	NA
Maximum Background Concentration			8.66	NA	NA	NA
Average Background Concentration			8.31	NA	NA	NA

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

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

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

= Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

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
BKG-1 1ft	4/15/2022	1	3.69	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1 2ft	4/15/2022	2	3.54	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKFILL	03/07/2024	Grab	3.33	52.9	<0.200	<0.30	3.56	6	3.68	<0.260	0.0231	15.4
FLOOR 9FT	03/07/2024	9	11.2	40.5	0.263	<0.30	4.84	6.74	4.43	<0.260	<0.0200	16.3
SS-NE 8FT	03/07/2024	8	4.27	97.3	0.243	<0.30	3.8	6.48	4.89	<0.260	0.0323	17.3
SS-NW 8FT	03/07/2024	8	3.33	44.8	<0.200	<0.30	3.11	5.04	3.86	<0.260	<0.0200	15.6
SS-SE 8FT	03/07/2024	8	3.14	61.6	<0.200	<0.30	3.38	5.07	4.1	<0.260	0.0207	16.1
SS-SW 8FT	03/07/2024	8	4.13	37.4	<0.200	<0.30	3.81	6.46	4.83	<0.260	0.0215	18.4
BKG 1 3FT	04/11/2024	3	3.57	50.2	<0.200	<0.30	3.93	5.57	4.11	<0.260	0.031	16.1
BKG 1 8FT	04/11/2024	8	3.47	53	<0.181	<0.30	2.92	4.38	3.64	<0.236	0.0217	12.5
BKG 2 3FT	04/11/2024	3	3.75	60.7	0.196	<0.30	6.6	6.62	3.93	<0.236	0.0297	21.9
BKG 2 8FT	04/11/2024	8	3.99	54.6	<0.200	<0.30	2.53	3.93	3.27	<0.260	<0.0200	11.7
BKG 3 3FT	04/11/2024	3	3.38	60.2	<0.200	<0.30	4.07	5.87	4.13	<0.260	0.0286	17.3
BKG 3 8FT	04/11/2024	8	4.15	56.5	0.221	<0.30	10.9	7.15	4.23	0.279	0.0277	30.5
BKG 4 3FT	04/11/2024	3	3.97	59.2	0.209	<0.30	6.91	6.75	4.19	0.29	0.0295	27.8
BKG 4 8FT	04/11/2024	8	3.15	59.7	<0.200	<0.30	3.17	4.75	4.14	<0.260	0.0221	13.7
BKG 5 3FT	04/11/2024	3	2.65	63.1	<0.200	<0.30	2.71	5.06	3.67	<0.260	0.0202	13.6
BKG 5 8FT	04/11/2024	8	4.71	38.9	<0.200	<0.30	3.27	5.87	3.37	<0.260	<0.0200	14
MW-6 4FT	04/11/2024	4	3.21	78	<0.200	<0.30	3.3	5.62	5.11	<0.260	<0.0200	15.1
Maximum Root Zone Background Concentration (0 - 3 ft)			3.97	78	NA	NA	NA	NA	NA	NA	NA	NA
125% Average Root Zone Background Concentration (0 - 3 ft)			4.28	77.4	NA	NA	NA	NA	NA	NA	NA	NA
Maximum Background Concentration			4.71	78	NA	NA	NA	NA	NA	NA	NA	NA
125% Average Background Concentration			3.64	57.6	NA	NA	NA	NA	NA	NA	NA	NA

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

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

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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

= Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

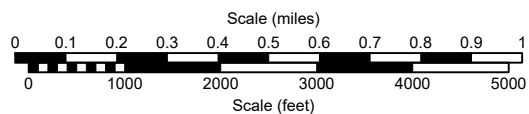
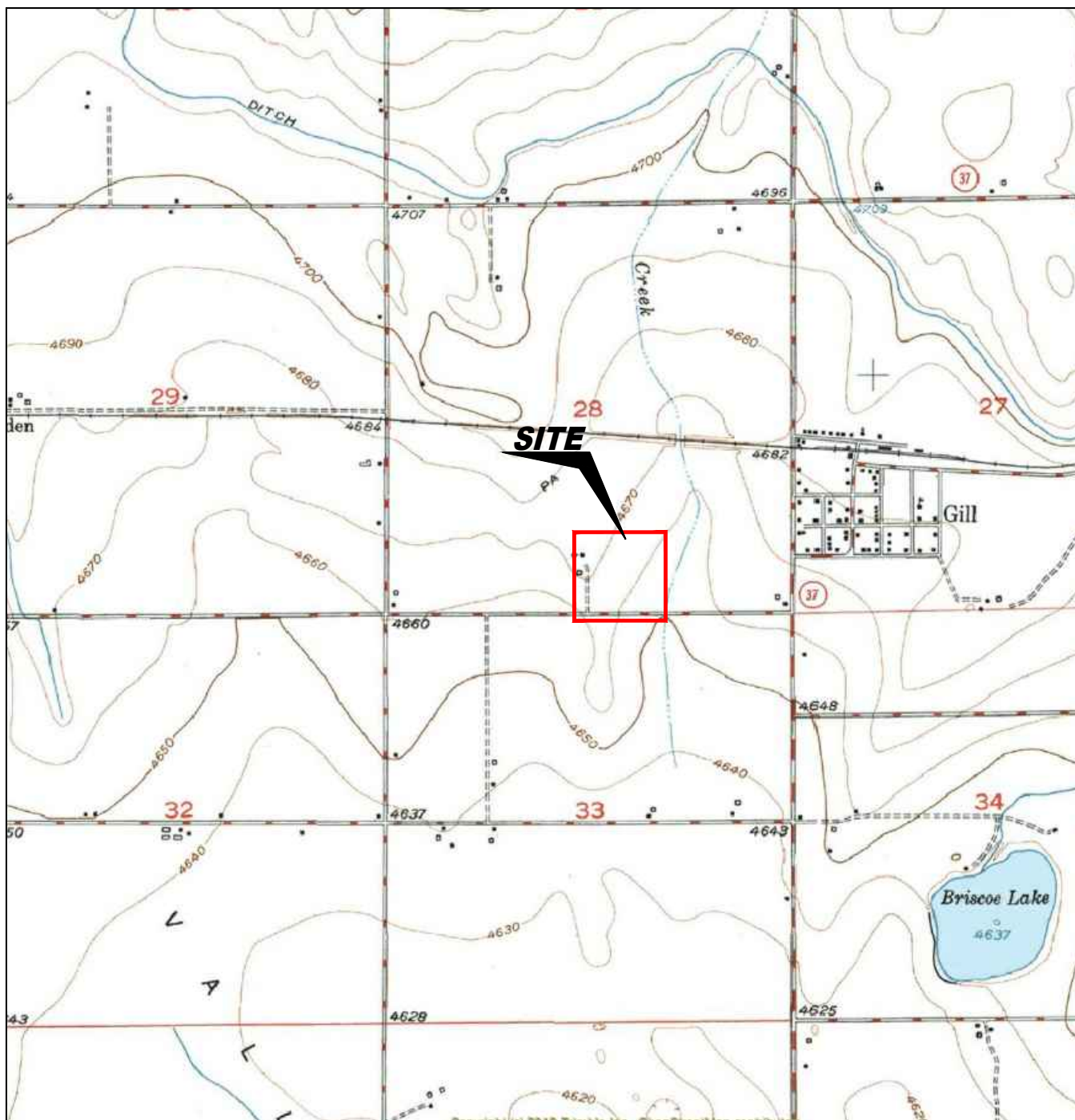
Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl- Benzene (µg/L)	1,3,5- Trimethyl- Benzene (µg/L)	1-Methyl- Naphthalene (µg/L)	2-Methyl- Naphthalene (µg/L)	TOC Elevation (ft)	Depth to Groundwater Below TOC (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67	NL	NL				
MW-1	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	100	4.35	95.65	NP
	7/25/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		2.91	97.09	NP
	10/19/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.16	96.84	NP
	4/11/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		4.08	95.92	NP
	7/31/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		4.42	95.58	NP
MW-2 MW-2R	4/15/2022	12	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	101.26	4.69	96.57	NP
	7/25/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	101.08	3.28	97.98	NP
	10/19/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.45	97.81	NP
	4/11/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		5.62	95.46	NP
	7/31/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		5.00	96.08	NP
MW-3	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	100.61	4.87	95.74	NP
	7/25/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.41	97.2	NP
	10/19/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.65	96.96	NP
	4/11/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		4.57	96.04	NP
	7/31/2024	DES	DES	DES	DES	DES	DES	DES	DES	DES		DES	DES	DES
MW-4	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	100.19	4.49	95.7	NP
	7/25/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.09	97.1	NP
	10/19/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.33	96.86	NP
	4/11/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		4.22	95.97	NP
	7/31/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		4.59	95.60	NP
MW-5	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	100.45	4.92	95.53	NP
	7/25/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.53	96.92	NP
	10/19/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.75	96.7	NP
	4/11/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		4.65	95.8	NP
	7/31/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		5.26	95.19	NP
MW-6	4/11/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	101.13	5.91	95.22	NP
	7/31/2024	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		5.25	95.88	NP
W1	03/07/2024	<1.0	<1.0	<1.0	9.9	<1.0	<1.0	<1.0	1.26	<0.500	NA	NA	NA	NA

1. Bold values exceed the ECMC limit(s)

2. Red highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, NL - No Limit, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

FIGURES



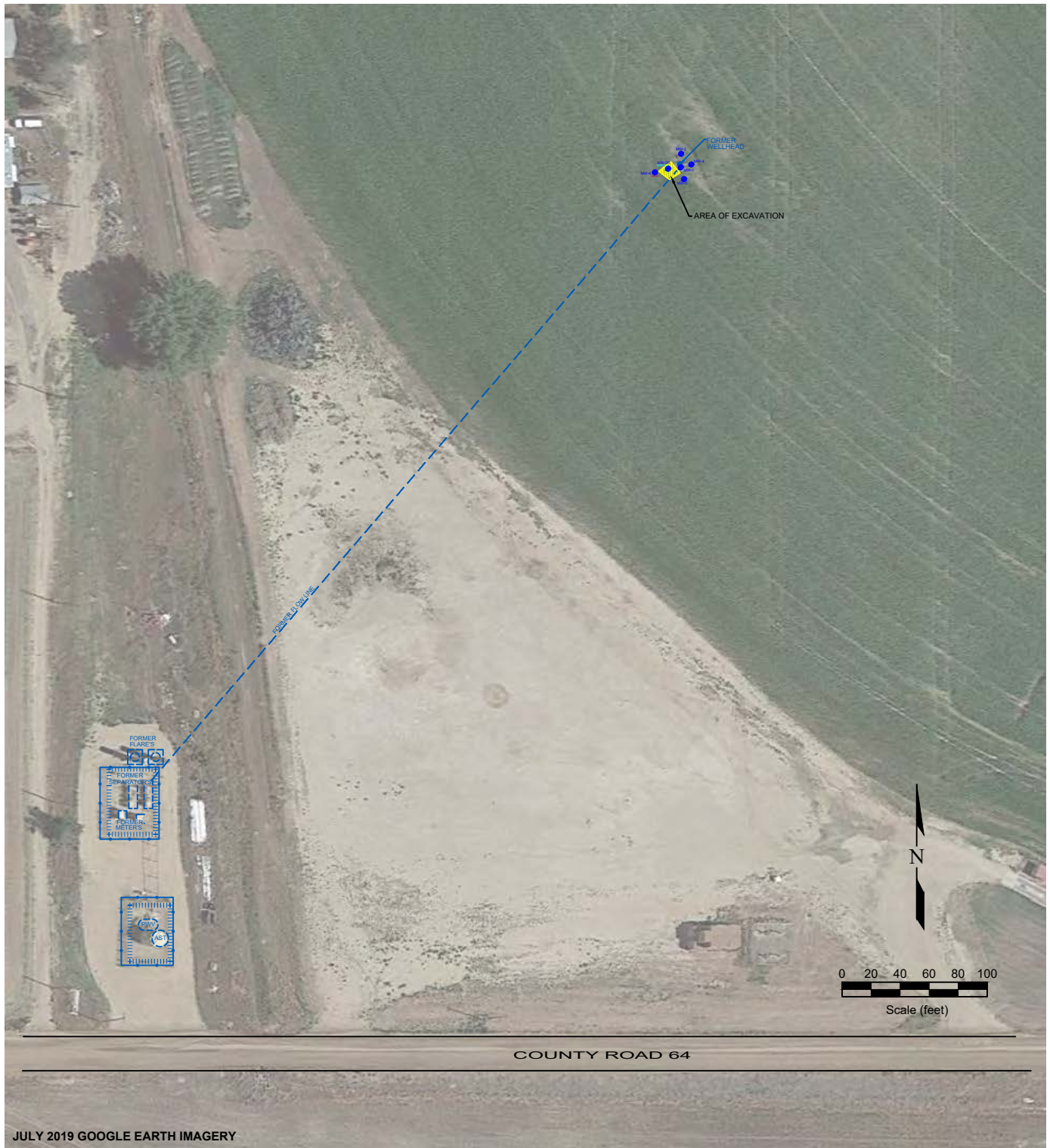
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Webster 15-28
SWSE Sec. 28, T6N, R64W, 6th PM
Weld County, Colorado
40.451617°, -104.553572°

Project # C022-026	API # 05-123-12690	Facility # 481614
Date 8/6/24	Remediation # 20954	Filename 22026T





LEGEND

● SOIL BORING LOCATION	● WELL HEAD LOCATION	FORMER FACILITY	CONTAINMENT BERM
● MONITORING WELL	○ ABOVE GROUND STORAGE TANK	AREA OF EXCAVATION	FLOW LINE
⊕ DESTROYED MONITORING WELL		EXTENT OF EXCAVATION	FENCE LINE

Figure 2
SITE MAP

Noble Energy, Inc. ~ Webster 15-28
SWSE Sec. 28, T6N, R64W, 6th PM
Weld County, Colorado
40.451617°, -104.553572°

Project No. C022-026	API # 05-123-12690	Facility # 481614
Date 8/26/24	Remediation # 20954	Filename 22026Q



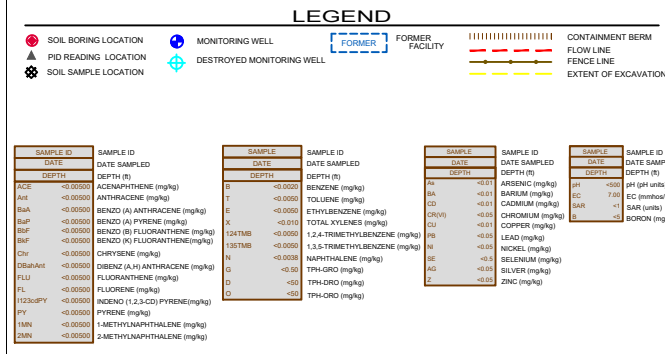
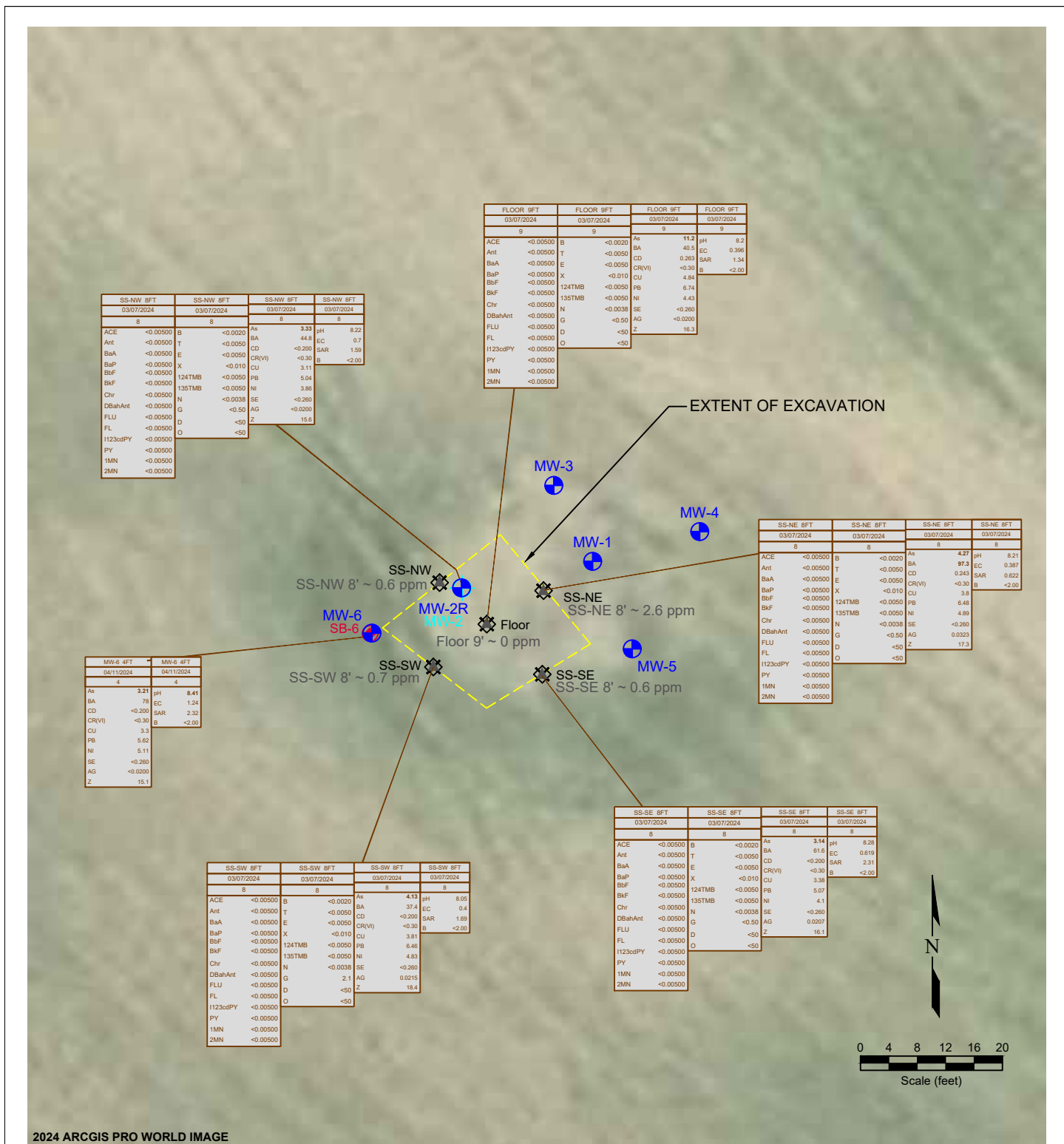


Figure 3
EXCAVATION SOIL CHEMISTRY MAP

Noble Energy, Inc. ~ Webster 15-28
SWSE Sec. 28, T6N, R64W, 6th PM
Weld County, Colorado
40.451617°, -104.553572°

Project No. C022-026	API # 05-123-12690	Facility # 481614	
Date 8/26/24	Remediation # 20954	Filename 22026Q1	

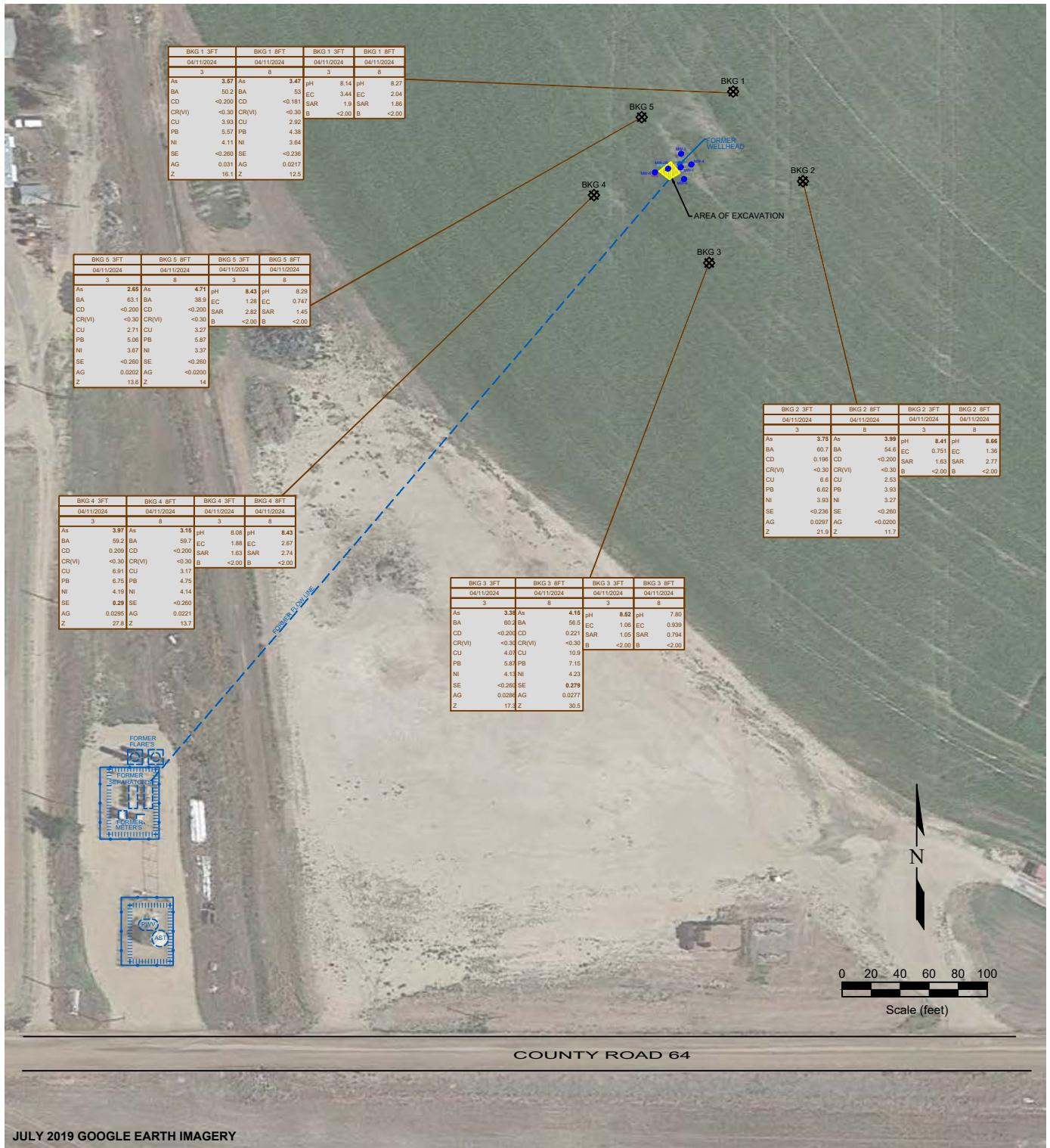


Figure 4
BACKGROUND SAMPLE SOIL CHEMISTRY MAP

Noble Energy, Inc. ~ Webster 15-28
SWSE Sec. 28, T6N, R64W, 6th PM
Weld County, Colorado
40.451617°, -104.553572°

Project No. C022-026	API # 05-123-12690	Facility # 481614	
Date 8/26/24	Remediation # 20954	Filename 22026Q	

APPENDIX A

PHOTO LOG

Photo Log



Description:

--

Photo Log



Description:

--

Photo Log



Description:

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APPENDIX B

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 21, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

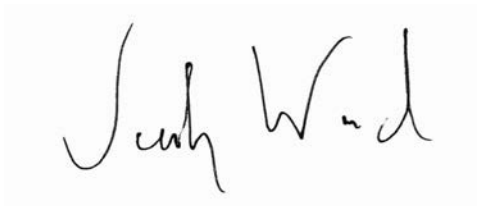
Wellington, CO 80549

RE: Noble - Webster 15-28 (Excavation)

Work Order #2403117

Enclosed are the results of analyses for samples received by Summit Scientific on 03/07/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-NE 8FT	2403117-01	Soil	03/07/24 00:00	03/07/24 16:30
SS-NW 8FT	2403117-02	Soil	03/07/24 00:00	03/07/24 16:30
SS-SE 8FT	2403117-03	Soil	03/07/24 00:00	03/07/24 16:30
SS-SW 8FT	2403117-04	Soil	03/07/24 00:00	03/07/24 16:30
FLOOR 9FT	2403117-05	Soil	03/07/24 00:00	03/07/24 16:30
BACKFILL	2403117-06	Soil	03/07/24 00:00	03/07/24 16:30
W1	2403117-07	Water	03/07/24 00:00	03/07/24 16:30

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2403117	

Client: Fremont Environmental, Inc.	Send Data To:	Send Invoice To:
Address: 8305 6th St.	Project Manager: Henshan	Company: Chevron
City/State/Zip: Wellington, CO, 80549	E-Mail: Chevron Dist. List, PDC Dist. List, Civitas Dist. List	Project Name/Location:
Phone: 603-477-6907	Fremont Dist. List (@fremontenv.com): paulH, ethanB, nickL, mikeG, jeffG, chrisL, stanG, aaronO	AFE#:
Sampler Name: Ethan Black	Project Name: Noble - Webster IS-28 (Excavation)	PO/Billing Codes: UWRWE-A1884-ABN
	Project Number:	Contact: Dan P.

					Preservative				Matrix			Analysis Requested							Special Instructions			
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	TDS, Chloride, Sulfate				
1	SS - NE 8FT	3/7/24		2			X			X			X	X	X	X	X					
2	SS - NW 8FT																					
3	SS - SE 8FT																					
4	SS - SW 8FT																					
5	FLOOR 9FT																					
6	BACKFILL																					
7	W1			5	X				X													Run 1-and-2 MW only
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <i>Ethan Black</i>	Date/Time: 3/7/24 1330	Received by: S2 - North Office	Date/Time: 3/7/24 1330	TAT Business Days	Field DO	Notes: Please run 1-and-2 MN (PAH) only for W1 Sample.
Relinquished by: S2	Date/Time: 3/7/24 1030	Received by: <i>[Signature]</i>	Date/Time: 3/7/24 1030	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 10-6	Corrected Temperature: 10-6	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2403117Client: FremontClient Project ID: Noble-Webster 15-28 (Excavation)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: _____

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☒

Other

☐

Temp (°C)

10.4

Thermometer #

1

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

Additional Comments (if any):

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

3/7/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NE 8FT
2403117-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.23	57.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NE 8FT
2403117-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0217	65.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0271	81.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 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 - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

**SS-NE 8FT
2403117-01 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.27	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	97.3	0.400	"	"	"	"	"	"
Cadmium	0.243	0.200	"	"	"	"	"	"
Copper	3.80	0.400	"	"	"	"	"	"
Lead	6.48	0.200	"	"	"	"	"	"
Nickel	4.89	0.400	"	"	"	"	"	"
Silver	0.0323	0.0200	"	"	"	"	"	"
Zinc	17.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.8	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	19.3	0.0500	"	"	"	"	"	"	
Sodium	20.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.622	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 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 - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

**SS-NE 8FT
2403117-01 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.8	%	1	BHC0364	03/13/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.387	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NW 8FT
2403117-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0414	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.91	63.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NW 8FT
2403117-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0164	49.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 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 - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NW 8FT
2403117-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	3.33	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	44.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.11	0.400	"	"	"	"	"	"
Lead	5.04	0.200	"	"	"	"	"	"
Nickel	3.86	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	15.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.8	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	14.8	0.0500	"	"	"	"	"	"	
Sodium	42.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.59	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NW 8FT
2403117-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.1		%	1	BHC0364	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.700	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SE 8FT
2403117-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.78	54.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SE 8FT
2403117-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0171	51.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SE 8FT
2403117-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.14	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	61.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.38	0.400	"	"	"	"	"	"
Lead	5.07	0.200	"	"	"	"	"	"
Nickel	4.10	0.400	"	"	"	"	"	"
Silver	0.0207	0.0200	"	"	"	"	"	"
Zinc	16.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.6	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	26.8	0.0500	"	"	"	"	"	"	
Sodium	77.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.31	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SE 8FT
2403117-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.3		%	1	BHC0364	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.619	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SW 8FT
2403117-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.1	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.84	54.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SW 8FT
2403117-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0209	62.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 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 - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

**SS-SW 8FT
2403117-04 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.13	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	37.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.81	0.400	"	"	"	"	"	"
Lead	6.46	0.200	"	"	"	"	"	"
Nickel	4.83	0.400	"	"	"	"	"	"
Silver	0.0215	0.0200	"	"	"	"	"	"
Zinc	18.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.6	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	24.3	0.0500	"	"	"	"	"	"	
Sodium	58.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.69	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

**SS-SW 8FT
2403117-04 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.1		%	1	BHC0364	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.400	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

FLOOR 9FT
2403117-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.07	72.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

FLOOR 9FT
2403117-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 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 - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

FLOOR 9FT
2403117-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	11.2	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	40.5	0.400	"	"	"	"	"	"
Cadmium	0.263	0.200	"	"	"	"	"	"
Copper	4.84	0.400	"	"	"	"	"	"
Lead	6.74	0.200	"	"	"	"	"	"
Nickel	4.43	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	16.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.0	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	13.2	0.0500	"	"	"	"	"	"	
Sodium	35.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.34	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

FLOOR 9FT
2403117-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.0		%	1	BHC0364	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.396	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

BACKFILL
2403117-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0417	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Paul Henchan

Reported:
03/21/24 12:08

BACKFILL
2403117-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 00:00**

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

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

BACKFILL
2403117-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.33	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	52.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.56	0.400	"	"	"	"	"	"
Lead	6.00	0.200	"	"	"	"	"	"
Nickel	3.68	0.400	"	"	"	"	"	"
Silver	0.0231	0.0200	"	"	"	"	"	"
Zinc	15.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.2	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	4.71	0.0500	"	"	"	"	"	"	
Sodium	2.28	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.103	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

BACKFILL
2403117-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BHC0364	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.220	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

Summit Scientific

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

W1
2403117-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

HDSP

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0194	03/07/24	03/07/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	9.9	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	11.8	88.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.5	101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.4	108 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	1.26	0.500	ug/l	1	BHC0222	03/08/24	03/09/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.83	91.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	2.23	111 %	40-150		"	"	"	"	

Summit Scientific

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0194 - EPA 5030 Water MS

Blank (BHC0194-BLK1)

Prepared & Analyzed: 03/07/24

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		96.2	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

LCS (BHC0194-BS1)

Prepared & Analyzed: 03/07/24

Benzene	37.0	1.0	ug/l	33.3		111	51-132			
Toluene	34.6	1.0	"	33.3		104	51-138			
Ethylbenzene	44.3	1.0	"	33.3		133	58-146			
m,p-Xylene	90.3	2.0	"	66.7		135	57-144			
o-Xylene	43.7	1.0	"	33.3		131	53-146			
Naphthalene	24.4	1.0	"	33.3		73.1	70-130			
1,2,4-Trimethylbenzene	39.4	1.0	"	33.3		118	70-130			
1,3,5-Trimethylbenzene	39.1	1.0	"	33.3		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.6		"	13.3		169	23-173			
Surrogate: Toluene-d8	13.9		"	13.3		104	20-170			
Surrogate: 4-Bromofluorobenzene	10.7		"	13.3		80.2	21-167			

Matrix Spike (BHC0194-MS1)

Source: 2403062-01

Prepared & Analyzed: 03/07/24

Benzene	33.0	1.0	ug/l	33.3	ND	98.9	34-141			
Toluene	31.4	1.0	"	33.3	ND	94.2	27-151			
Ethylbenzene	29.9	1.0	"	33.3	ND	89.8	29-160			
m,p-Xylene	61.5	2.0	"	66.7	ND	92.2	20-166			
o-Xylene	30.3	1.0	"	33.3	ND	90.9	33-159			
Naphthalene	25.8	1.0	"	33.3	ND	77.3	70-130			
1,2,4-Trimethylbenzene	26.6	1.0	"	33.3	ND	79.8	70-130			
1,3,5-Trimethylbenzene	27.2	1.0	"	33.3	ND	81.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		93.1	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		105	21-167			

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

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

Batch BHC0194 - EPA 5030 Water MS

Matrix Spike Dup (BHC0194-MSD1)			Source: 2403062-01		Prepared & Analyzed: 03/07/24					
Benzene	33.9	1.0	ug/l	33.3	ND	102	34-141	2.84	30	
Toluene	32.0	1.0	"	33.3	ND	96.1	27-151	1.99	30	
Ethylbenzene	31.4	1.0	"	33.3	ND	94.3	29-160	4.92	30	
m,p-Xylene	63.5	2.0	"	66.7	ND	95.3	20-166	3.28	30	
o-Xylene	31.3	1.0	"	33.3	ND	93.8	33-159	3.18	30	
Naphthalene	27.4	1.0	"	33.3	ND	82.2	70-130	6.21	30	
1,2,4-Trimethylbenzene	28.6	1.0	"	33.3	ND	85.7	70-130	7.18	30	
1,3,5-Trimethylbenzene	28.5	1.0	"	33.3	ND	85.5	70-130	4.81	30	
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		93.2	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		104	21-167			

Batch BHC0202 - EPA 5030 Soil MS

Blank (BHC0202-BLK1)			Prepared: 03/07/24 Analyzed: 03/08/24							
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0318		"	0.0400		79.6	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.5	50-150			

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0202 - EPA 5030 Soil MS

LCS (BHC0202-BS1)

Prepared: 03/07/24 Analyzed: 03/08/24

Benzene	0.0920	0.0020	mg/kg	0.100		92.0	70-130			
Toluene	0.0902	0.0050	"	0.100		90.2	70-130			
Ethylbenzene	0.0934	0.0050	"	0.100		93.4	70-130			
m,p-Xylene	0.192	0.010	"	0.200		96.2	70-130			
o-Xylene	0.0947	0.0050	"	0.100		94.7	70-130			
1,2,4-Trimethylbenzene	0.0906	0.0050	"	0.100		90.6	70-130			
1,3,5-Trimethylbenzene	0.0933	0.0050	"	0.100		93.3	70-130			
Naphthalene	0.0708	0.0038	"	0.100		70.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0310		"	0.0400		77.6	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.3	50-150			

Matrix Spike (BHC0202-MS1)

Source: 2403113-01

Prepared: 03/07/24 Analyzed: 03/08/24

Benzene	0.0890	0.0020	mg/kg	0.100	ND	89.0	70-130			
Toluene	0.0832	0.0050	"	0.100	ND	83.2	70-130			
Ethylbenzene	0.0994	0.0050	"	0.100	ND	99.4	70-130			
m,p-Xylene	0.204	0.010	"	0.200	ND	102	70-130			
o-Xylene	0.0986	0.0050	"	0.100	ND	98.6	70-130			
1,2,4-Trimethylbenzene	0.0922	0.0050	"	0.100	ND	92.2	70-130			
1,3,5-Trimethylbenzene	0.0955	0.0050	"	0.100	ND	95.5	70-130			
Naphthalene	0.0897	0.0038	"	0.100	ND	89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0357		"	0.0400		89.2	50-150			
Surrogate: Toluene-d8	0.0434		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0492		"	0.0400		123	50-150			

Matrix Spike Dup (BHC0202-MSD1)

Source: 2403113-01

Prepared: 03/07/24 Analyzed: 03/08/24

Benzene	0.0943	0.0020	mg/kg	0.100	ND	94.3	70-130	5.73	30	
Toluene	0.0881	0.0050	"	0.100	ND	88.1	70-130	5.64	30	
Ethylbenzene	0.0942	0.0050	"	0.100	ND	94.2	70-130	5.36	30	
m,p-Xylene	0.196	0.010	"	0.200	ND	98.0	70-130	3.95	30	
o-Xylene	0.0959	0.0050	"	0.100	ND	95.9	70-130	2.72	30	
1,2,4-Trimethylbenzene	0.0875	0.0050	"	0.100	ND	87.5	70-130	5.27	30	
1,3,5-Trimethylbenzene	0.0920	0.0050	"	0.100	ND	92.0	70-130	3.78	30	
Naphthalene	0.0902	0.0038	"	0.100	ND	90.2	70-130	0.600	30	
Surrogate: 1,2-Dichloroethane-d4	0.0345		"	0.0400		86.3	50-150			
Surrogate: Toluene-d8	0.0507		"	0.0400		127	50-150			
Surrogate: 4-Bromofluorobenzene	0.0509		"	0.0400		127	50-150			

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0200 - EPA 3550A

Blank (BHC0200-BLK1)

Prepared: 03/07/24 Analyzed: 03/08/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.2		"	12.5		89.5	30-150			

LCS (BHC0200-BS1)

Prepared: 03/07/24 Analyzed: 03/08/24

C10-C28 (DRO)	487	50	mg/kg	500		97.4	70-130			
Surrogate: o-Terphenyl	11.3		"	12.5		90.1	30-150			

Matrix Spike (BHC0200-MS1)

Source: 2403113-01

Prepared: 03/07/24 Analyzed: 03/08/24

C10-C28 (DRO)	455	50	mg/kg	500	36.4	83.8	70-130			
Surrogate: o-Terphenyl	9.06		"	12.5		72.5	30-150			

Matrix Spike Dup (BHC0200-MSD1)

Source: 2403113-01

Prepared: 03/07/24 Analyzed: 03/08/24

C10-C28 (DRO)	499	50	mg/kg	500	36.4	92.5	70-130	9.09	20	
Surrogate: o-Terphenyl	10.4		"	12.5		83.5	30-150			

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0212 - EPA 5030 Soil MS

Blank (BHC0212-BLK1)

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0387	"	0.0333	116	40-150
Surrogate: Fluoranthene-d10	0.0361	"	0.0333	108	40-150

LCS (BHC0212-BS1)

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	0.0347	0.00500	mg/kg	0.0333	104	31-137
Anthracene	0.0344	0.00500	"	0.0333	103	30-120
Benzo (a) anthracene	0.0329	0.00500	"	0.0333	98.6	30-120
Benzo (a) pyrene	0.0294	0.00500	"	0.0333	88.2	30-120
Benzo (b) fluoranthene	0.0288	0.00500	"	0.0333	86.3	30-120
Benzo (k) fluoranthene	0.0349	0.00500	"	0.0333	105	30-120
Chrysene	0.0361	0.00500	"	0.0333	108	30-120
Dibenz (a,h) anthracene	0.0298	0.00500	"	0.0333	89.4	30-120
Fluoranthene	0.0331	0.00500	"	0.0333	99.3	30-120
Fluorene	0.0351	0.00500	"	0.0333	105	30-120
Indeno (1,2,3-cd) pyrene	0.0301	0.00500	"	0.0333	90.2	30-120
Pyrene	0.0406	0.00500	"	0.0333	122	35-142
1-Methylnaphthalene	0.0316	0.00500	"	0.0333	94.7	35-142
2-Methylnaphthalene	0.0160	0.00500	"	0.0333	47.9	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0317	"	0.0333	95.1	40-150
Surrogate: Fluoranthene-d10	0.0339	"	0.0333	102	40-150

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Project Manager: Paul Henchan

Reported:
03/21/24 12:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0212 - EPA 5030 Soil MS

Matrix Spike (BHC0212-MS1)

Source: 2403113-01

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	0.0249	0.00500	mg/kg	0.0333	ND	74.7	31-137			
Anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120			
Benzo (a) anthracene	0.0213	0.00500	"	0.0333	ND	64.0	30-120			
Benzo (a) pyrene	0.0184	0.00500	"	0.0333	ND	55.1	30-120			
Benzo (b) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.6	30-120			
Benzo (k) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120			
Chrysene	0.0246	0.00500	"	0.0333	ND	73.8	30-120			
Dibenz (a,h) anthracene	0.0293	0.00500	"	0.0333	ND	88.0	30-120			
Fluoranthene	0.0217	0.00500	"	0.0333	ND	65.0	30-120			
Fluorene	0.0250	0.00500	"	0.0333	ND	75.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0283	0.00500	"	0.0333	ND	85.0	30-120			
Pyrene	0.0227	0.00500	"	0.0333	ND	68.1	35-142			
1-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.4	15-130			
2-Methylnaphthalene	0.0317	0.00500	"	0.0333	ND	95.0	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0164		"	0.0333		49.3	40-150			
Surrogate: Fluoranthene-d10	0.0228		"	0.0333		68.4	40-150			

Matrix Spike Dup (BHC0212-MSD1)

Source: 2403113-01

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	0.0148	0.00500	mg/kg	0.0333	ND	44.4	31-137	51.0	30	QR-02
Anthracene	0.0159	0.00500	"	0.0333	ND	47.8	30-120	16.8	30	
Benzo (a) anthracene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	22.4	30	
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	15.8	30	
Benzo (b) fluoranthene	0.0133	0.00500	"	0.0333	ND	40.0	30-120	10.9	30	
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.0	30-120	2.75	30	
Chrysene	0.0142	0.00500	"	0.0333	ND	42.7	30-120	53.5	30	QR-02
Dibenz (a,h) anthracene	0.0231	0.00500	"	0.0333	ND	69.2	30-120	24.0	30	
Fluoranthene	0.0142	0.00500	"	0.0333	ND	42.6	30-120	41.7	30	QR-02
Fluorene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	51.8	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0231	0.00500	"	0.0333	ND	69.3	30-120	20.3	30	
Pyrene	0.0144	0.00500	"	0.0333	ND	43.2	35-142	44.8	30	QR-02
1-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.1	15-130	23.7	50	
2-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	70.0	15-130	30.2	50	
Surrogate: 2-Methylnaphthalene-d10	0.0136		"	0.0333		40.7	40-150			
Surrogate: Fluoranthene-d10	0.0145		"	0.0333		43.6	40-150			

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Reported:
03/21/24 12:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0222 - EPA 5030 Water MS

Blank (BHC0222-BLK1)

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	ND	0.500	ug/l							
Acenaphthylene	ND	0.200	"							
Anthracene	ND	0.200	"							
Benzo (a) anthracene	ND	0.100	"							
Benzo (b) fluoranthene	ND	0.200	"							
Benzo (k) fluoranthene	ND	0.200	"							
Benzo (g,h,i) perylene	ND	0.200	"							
Benzo (a) pyrene	ND	0.200	"							
Chrysene	ND	0.200	"							
Dibenz (a,h) anthracene	ND	0.200	"							
Fluoranthene	ND	2.00	"							
Fluorene	ND	0.200	"							
Indeno (1,2,3-cd) pyrene	ND	0.300	"							
Phenanthrene	ND	0.500	"							
Pyrene	ND	1.00	"							
1-Methylnaphthalene	ND	0.500	"							
2-Methylnaphthalene	ND	0.500	"							
Surrogate: 2-Methylnaphthalene-d10	2.52		"	2.00		126	40-150			
Surrogate: Fluoranthene-d10	1.63		"	2.00		81.3	40-150			

LCS (BHC0222-BS1)

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	2.34	0.500	ug/l	2.00		117	30-120			
Acenaphthylene	2.25	0.200	"	2.00		113	30-120			
Anthracene	2.24	0.200	"	2.00		112	30-120			
Benzo (a) anthracene	2.32	0.100	"	2.00		116	30-120			
Benzo (b) fluoranthene	2.33	0.200	"	2.00		116	30-120			
Benzo (k) fluoranthene	2.23	0.200	"	2.00		112	30-120			
Benzo (g,h,i) perylene	2.19	0.200	"	2.00		109	30-120			
Benzo (a) pyrene	2.02	0.200	"	2.00		101	30-120			
Chrysene	2.21	0.200	"	2.00		111	30-120			
Dibenz (a,h) anthracene	2.34	0.200	"	2.00		117	30-120			
Fluoranthene	2.29	2.00	"	2.00		115	30-120			
Fluorene	2.39	0.200	"	2.00		119	30-120			
Indeno (1,2,3-cd) pyrene	2.30	0.300	"	2.00		115	30-120			
Phenanthrene	2.26	0.500	"	2.00		113	30-120			
Pyrene	2.22	1.00	"	2.00		111	30-120			
1-Methylnaphthalene	2.13	0.500	"	2.00		106	30-120			
2-Methylnaphthalene	2.15	0.500	"	2.00		107	0-200			

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Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0222 - EPA 5030 Water MS

LCS (BHC0222-BS1)

Prepared: 03/08/24 Analyzed: 03/09/24

Surrogate: 2-Methylnaphthalene-d10	1.66		ug/l	2.00		83.2	40-150		
Surrogate: Fluoranthene-d10	1.95		"	2.00		97.4	40-150		

LCS Dup (BHC0222-BS1)

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	2.27	0.500	ug/l	2.00		113	30-120	2.91	30
Acenaphthylene	2.20	0.200	"	2.00		110	30-120	2.51	30
Anthracene	2.38	0.200	"	2.00		119	30-120	6.12	30
Benzo (a) anthracene	2.29	0.100	"	2.00		115	30-120	1.16	30
Benzo (b) fluoranthene	2.31	0.200	"	2.00		115	30-120	0.708	30
Benzo (k) fluoranthene	2.39	0.200	"	2.00		120	30-120	6.90	30
Benzo (g,h,i) perylene	2.34	0.200	"	2.00		117	30-120	6.78	30
Benzo (a) pyrene	2.28	0.200	"	2.00		114	30-120	12.3	30
Chrysene	2.22	0.200	"	2.00		111	30-120	0.460	30
Dibenz (a,h) anthracene	2.38	0.200	"	2.00		119	30-120	1.83	30
Fluoranthene	2.33	2.00	"	2.00		117	30-120	1.71	30
Fluorene	2.30	0.200	"	2.00		115	30-120	3.97	30
Indeno (1,2,3-cd) pyrene	2.35	0.300	"	2.00		118	30-120	2.45	30
Phenanthrene	2.05	0.500	"	2.00		103	30-120	9.55	30
Pyrene	2.18	1.00	"	2.00		109	30-120	2.04	30
1-Methylnaphthalene	2.23	0.500	"	2.00		111	30-120	4.60	30
2-Methylnaphthalene	2.37	0.500	"	2.00		119	0-200	9.96	200
Surrogate: 2-Methylnaphthalene-d10	1.65		"	2.00		82.5	40-150		
Surrogate: Fluoranthene-d10	2.82		"	2.00		141	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

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

Batch BHC0440 - EPA 3050B

Blank (BHC0440-BLK1)

Prepared: 03/15/24 Analyzed: 03/20/24

Boron ND 2.00 mg/L

LCS (BHC0440-BS1)

Prepared: 03/15/24 Analyzed: 03/20/24

Boron 5.07 2.00 mg/L 5.00 101 80-120

Duplicate (BHC0440-DUP1)

Source: 2403117-01

Prepared: 03/15/24 Analyzed: 03/20/24

Boron 0.187 2.00 mg/L 0.224 17.7 20

Matrix Spike (BHC0440-MS1)

Source: 2403117-01

Prepared: 03/15/24 Analyzed: 03/20/24

Boron 4.97 2.00 mg/L 5.00 0.224 95.0 75-125

Matrix Spike Dup (BHC0440-MSD1)

Source: 2403117-01

Prepared: 03/15/24 Analyzed: 03/20/24

Boron 5.15 2.00 mg/L 5.00 0.224 98.5 75-125 3.47 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0368 - EPA 3050B

Blank (BHC0368-BLK1)

Prepared: 03/13/24 Analyzed: 03/17/24

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

LCS (BHC0368-BS1)

Prepared: 03/13/24 Analyzed: 03/17/24

Arsenic	41.8	0.200	mg/kg wet	40.0	105	80-120
Barium	42.7	0.400	"	40.0	107	80-120
Cadmium	2.01	0.200	"	2.00	101	80-120
Copper	42.1	0.400	"	40.0	105	80-120
Lead	20.3	0.200	"	20.0	102	80-120
Nickel	41.6	0.400	"	40.0	104	80-120
Silver	2.05	0.0200	"	2.00	102	80-120
Zinc	41.3	0.400	"	40.0	103	80-120
Selenium	3.73	0.260	"	4.00	93.3	80-120

Duplicate (BHC0368-DUP1)

Source: 2401464-02RE1

Prepared: 03/13/24 Analyzed: 03/17/24

Arsenic	3.54	0.200	mg/kg wet	3.22	9.41	20
Barium	91.5	0.400	"	87.5	4.48	20
Cadmium	0.164	0.200	"	0.164	0.244	20
Copper	7.55	0.400	"	8.00	5.81	20
Lead	7.48	0.200	"	7.67	2.55	20
Nickel	4.92	0.400	"	4.78	3.01	20
Silver	0.0344	0.0200	"	0.0452	27.1	20
Zinc	17.7	0.400	"	18.6	4.66	20
Selenium	ND	0.260	"	ND		20

QR-01

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0368 - EPA 3050B

Matrix Spike (BHC0368-MS1)		Source: 2401464-02RE1			Prepared: 03/13/24 Analyzed: 03/17/24					
Arsenic	46.2	0.200	mg/kg wet	40.0	3.22	107	75-125			
Barium	128	0.400	"	40.0	87.5	102	75-125			
Cadmium	2.27	0.200	"	2.00	0.164	105	75-125			
Copper	31.6	0.400	"	40.0	8.00	58.9	75-125			QM-05
Lead	29.9	0.200	"	20.0	7.67	111	75-125			
Nickel	27.9	0.400	"	40.0	4.78	57.7	75-125			QM-05
Silver	2.08	0.0200	"	2.00	0.0452	102	75-125			
Zinc	42.4	0.400	"	40.0	18.6	59.7	75-125			QM-05
Selenium	3.61	0.260	"	4.00	ND	90.2	75-125			

Matrix Spike Dup (BHC0368-MSD1)		Source: 2401464-02RE1			Prepared: 03/13/24 Analyzed: 03/17/24					
Arsenic	46.1	0.200	mg/kg wet	40.0	3.22	107	75-125	0.183	25	
Barium	128	0.400	"	40.0	87.5	101	75-125	0.585	25	
Cadmium	2.27	0.200	"	2.00	0.164	105	75-125	0.106	25	
Copper	31.6	0.400	"	40.0	8.00	58.9	75-125	0.0101	25	QM-05
Lead	29.8	0.200	"	20.0	7.67	111	75-125	0.217	25	
Nickel	27.8	0.400	"	40.0	4.78	57.7	75-125	0.0172	25	QM-05
Silver	2.08	0.0200	"	2.00	0.0452	102	75-125	0.135	25	
Zinc	42.4	0.400	"	40.0	18.6	59.7	75-125	0.0443	25	QM-05
Selenium	3.65	0.260	"	4.00	ND	91.2	75-125	1.15	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0531 - 3060A Mod

Blank (BHC0531-BLK1)

Prepared: 03/15/24 Analyzed: 03/18/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0531-BS1)

Prepared: 03/15/24 Analyzed: 03/18/24

Chromium, Hexavalent 24.2 0.30 mg/kg wet 25.0 96.8 80-120

Duplicate (BHC0531-DUP1)

Source: 2403095-01

Prepared: 03/15/24 Analyzed: 03/18/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0531-MS1)

Source: 2403095-01

Prepared: 03/15/24 Analyzed: 03/18/24

Chromium, Hexavalent 26.4 0.30 mg/kg dry 27.7 ND 95.2 75-125

Matrix Spike Dup (BHC0531-MSD1)

Source: 2403095-01

Prepared: 03/15/24 Analyzed: 03/18/24

Chromium, Hexavalent 26.4 0.30 mg/kg dry 27.7 ND 95.2 75-125 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

Summit Scientific

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

Batch BHC0287 - General Preparation

Blank (BHC0287-BLK1)

Prepared: 03/11/24 Analyzed: 03/16/24

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

LCS (BHC0287-BS1)

Prepared: 03/11/24 Analyzed: 03/16/24

Calcium	5.36	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.06	0.0500	"	5.00	101	70-130
Sodium	5.05	0.0500	"	5.00	101	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)

Project Number: UWRWE-A1884-ABN

Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

Summit Scientific

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

Batch BHC0364 - General Preparation

Duplicate (BHC0364-DUP1)

Source: 2403093-01

Prepared: 03/13/24 Analyzed: 03/16/24

% Solids	84.7	%	88.8	4.75	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)

Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

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

Batch BHC0289 - General Preparation

Blank (BHC0289-BLK1)

Prepared: 03/11/24 Analyzed: 03/13/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC0289-BS1)

Prepared: 03/11/24 Analyzed: 03/13/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHC0289-DUP1)

Source: 2403095-01

Prepared: 03/11/24 Analyzed: 03/13/24

Specific Conductance (EC) 0.497 0.0100 mmhos/cm 0.514 3.42 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)

Project Number: UWRWE-A1884-ABN

Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

Summit Scientific

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

Batch BHC0288 - General Preparation

LCS (BHC0288-BS1)

Prepared: 03/11/24 Analyzed: 03/13/24

pH	9.03	pH Units	9.18	98.4	95-105
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Duplicate (BHC0288-DUP1)

Source: 2403095-01

Prepared: 03/11/24 Analyzed: 03/13/24

pH	8.33	pH Units	8.45	1.43	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)

Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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.
HDSP	Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
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

May 30, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

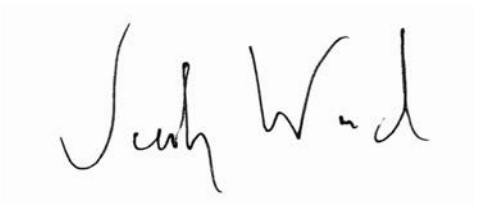
Wellington, CO 80549

RE: Noble - Webster 15-28 (SI/BKG)

Work Order #2404281

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

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)

Project Number: UWRWE-A1884-ABN

Project Manager: Paul Henchan

Reported:
05/30/24 16:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6 4FT	2404281-01	Soil	04/11/24 00:00	04/16/24 16:30
BKG 1 3FT	2404281-02	Soil	04/11/24 00:00	04/16/24 16:30
BKG 1 8FT	2404281-03	Soil	04/11/24 00:00	04/16/24 16:30
BKG 2 3FT	2404281-04	Soil	04/11/24 00:00	04/16/24 16:30
BKG 2 8FT	2404281-05	Soil	04/11/24 00:00	04/16/24 16:30
BKG 3 3FT	2404281-06	Soil	04/11/24 00:00	04/16/24 16:30
BKG 3 8FT	2404281-07	Soil	04/11/24 00:00	04/16/24 16:30
BKG 4 3FT	2404281-08	Soil	04/11/24 00:00	04/16/24 16:30
BKG 4 8FT	2404281-09	Soil	04/11/24 00:00	04/16/24 16:30
BKG 5 3FT	2404281-10	Soil	04/11/24 00:00	04/16/24 16:30
BKG 5 8FT	2404281-11	Soil	04/11/24 00:00	04/16/24 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
2404281	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager: Henshan	Company: Chevron	
Address: 8305 6th St.	E-Mail: Chevron Dist. List POC Dist. List, Ohitas Dist. List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549	Fremont Dist. List: Paul H, ethan B, Jack, Mike G, Jeff G, Chris, Alan G, Aaron G, Jimmy	AFEN:	
Phone: 603-477-6907	Project Name: Noble - Webster IS-28 (SI/BKG)	PO/Billing Codes: UWRWE-1884	
Sampler Name: Ethan Black	Project Number:	Contact: Don P.	

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	Metals (Table 915-1)	TDS, Chloride, Sulfate		
1	MW-6 4FT	4/11/24		2			X			X			X	X	X	X	X			
2	BKG 1 3FT	↓		1																
3	BKG 1 6FT																			
4	BKG 2 3FT																			
5	BKG 2 6FT																			
6	BKG 3 3FT																			
7	BKG 3 6FT																			
8	BKG 4 3FT																			
9	BKG 4 6FT																			
10	BKG 5 3FT																			
11	BKG 5 6FT		↓		↓															
12																				
13																				
14																				
15																				

Relinquished by: <i>Ethan Black</i>	Date/Time: 4/16/24 1530	Received by: S2 - North Office	Date/Time: 4/16/24 1530	TAT Business Days	Field DO	Notes:
Relinquished by: 92	Date/Time: 4/16/24 1630	Received by: <i>[Signature]</i>	Date/Time: 4/16/24 1630	Same Day	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: 11.9	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:	Standard	X Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2404281Client: FremontClient Project ID: Noble-Webster K-28 (SI/BKG)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

☐

Sol/Solid

☐

Water

☐

Other

☐Temp (°C) 11.9

Thermometer #

1

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

Custodian Printed Name

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

MW-6 4FT
2404281-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0629	04/18/24	04/20/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0527	132 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0366	91.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0633	04/18/24	04/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.0	104 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

MW-6 4FT
2404281-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0530	04/17/24	04/17/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0224	67.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0158	47.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 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 - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

MW-6 4FT
2404281-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.21	0.200	mg/kg dry	1	BHD1030	04/29/24	05/22/24	EPA 6020B
Barium	78.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.30	0.400	"	"	"	"	"	"
Lead	5.62	0.200	"	"	"	"	"	"
Nickel	5.11	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	15.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.7	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	34.4	0.0500	"	"	"	"	"	"	
Sodium	86.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.32	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

MW-6 4FT
2404281-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	82.7			%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.24	0.0100		mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.41			pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 1 3FT
2404281-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.57	0.200	mg/kg dry	1	BHD1030	04/29/24	05/23/24	EPA 6020B	
Barium	50.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.93	0.400	"	"	"	"	"	"	
Lead	5.57	0.200	"	"	"	"	"	"	
Nickel	4.11	0.400	"	"	"	"	"	"	
Silver	0.0310	0.0200	"	"	"	"	"	"	
Zinc	16.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	326	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	116	0.0500	"	"	"	"	"	"	
Sodium	157	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
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Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 1 3FT
2404281-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.90	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.44	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 1 8FT
2404281-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.47	0.181	mg/kg dry	1	BHD1030	04/29/24	05/23/24	EPA 6020B	
Barium	53.0	0.362	"	"	"	"	"	"	
Cadmium	ND	0.181	"	"	"	"	"	"	
Copper	2.92	0.362	"	"	"	"	"	"	
Lead	4.38	0.181	"	"	"	"	"	"	
Nickel	3.64	0.362	"	"	"	"	"	"	
Silver	0.0217	0.0181	"	"	"	"	"	"	
Zinc	12.5	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	104	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	75.2	0.0500	"	"	"	"	"	"	
Sodium	102	0.0500	"	"	"	"	"	"	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 1 8FT
2404281-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.86	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.04	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 2 3FT
2404281-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.75	0.181	mg/kg dry	1	BHD1030	04/29/24	05/23/24	EPA 6020B	
Barium	60.7	0.362	"	"	"	"	"	"	
Cadmium	0.196	0.181	"	"	"	"	"	"	
Copper	6.60	0.362	"	"	"	"	"	"	
Lead	6.62	0.181	"	"	"	"	"	"	
Nickel	3.93	0.362	"	"	"	"	"	"	
Silver	0.0297	0.0181	"	"	"	"	"	"	
Zinc	21.9	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	19.7	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	9.72	0.0500	"	"	"	"	"	"	
Sodium	35.4	0.0500	"	"	"	"	"	"	

Summit Scientific

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Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 2 3FT
2404281-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.63	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.751	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
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Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 2 8FT
2404281-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.99	0.200	mg/kg dry	1	BHD1030	04/29/24	05/23/24	EPA 6020B	
Barium	54.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.53	0.400	"	"	"	"	"	"	
Lead	3.93	0.200	"	"	"	"	"	"	
Nickel	3.27	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	29.5	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	31.8	0.0500	"	"	"	"	"	"	
Sodium	90.9	0.0500	"	"	"	"	"	"	

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Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 2 8FT
2404281-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.77	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.36	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 3 3FT
2404281-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.38	0.200	mg/kg dry	1	BHD1030	04/29/24	05/23/24	EPA 6020B	
Barium	60.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.07	0.400	"	"	"	"	"	"	
Lead	5.87	0.200	"	"	"	"	"	"	
Nickel	4.13	0.400	"	"	"	"	"	"	
Silver	0.0286	0.0200	"	"	"	"	"	"	
Zinc	17.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	32.8	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	20.8	0.0500	"	"	"	"	"	"	
Sodium	31.3	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 3 3FT
2404281-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.05	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.9		%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.06	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 3 8FT
2404281-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.15	0.200	mg/kg dry	1	BHD1030	04/29/24	05/23/24	EPA 6020B	
Barium	56.5	0.400	"	"	"	"	"	"	
Cadmium	0.221	0.200	"	"	"	"	"	"	
Copper	10.9	0.400	"	"	"	"	"	"	
Lead	7.15	0.200	"	"	"	"	"	"	
Nickel	4.23	0.400	"	"	"	"	"	"	
Silver	0.0277	0.0200	"	"	"	"	"	"	
Zinc	30.5	0.400	"	"	"	"	"	"	
Selenium	0.279	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	44.6	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	13.9	0.0500	"	"	"	"	"	"	
Sodium	23.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 3 8FT
2404281-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.794	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.939	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 4 3FT
2404281-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.97	0.181	mg/kg dry	1	BHD1030	04/29/24	05/23/24	EPA 6020B	
Barium	59.2	0.362	"	"	"	"	"	"	
Cadmium	0.209	0.181	"	"	"	"	"	"	
Copper	6.91	0.362	"	"	"	"	"	"	
Lead	6.75	0.181	"	"	"	"	"	"	
Nickel	4.19	0.362	"	"	"	"	"	"	
Silver	0.0295	0.0181	"	"	"	"	"	"	
Zinc	27.8	0.362	"	"	"	"	"	"	
Selenium	0.290	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	160	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	58.3	0.0500	"	"	"	"	"	"	
Sodium	94.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 4 3FT
2404281-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.63	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.6		%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.88	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 4 8FT
2404281-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.15	0.200	mg/kg dry	1	BHD1030	04/29/24	05/23/24	EPA 6020B	
Barium	59.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.17	0.400	"	"	"	"	"	"	
Lead	4.75	0.200	"	"	"	"	"	"	
Nickel	4.14	0.400	"	"	"	"	"	"	
Silver	0.0221	0.0200	"	"	"	"	"	"	
Zinc	13.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	78.3	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	60.5	0.0500	"	"	"	"	"	"	
Sodium	133	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 4 8FT
2404281-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.74	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.67	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 5 3FT
2404281-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.65	0.200	mg/kg dry	1	BHD1030	04/29/24	05/23/24	EPA 6020B	
Barium	63.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.71	0.400	"	"	"	"	"	"	
Lead	5.06	0.200	"	"	"	"	"	"	
Nickel	3.67	0.400	"	"	"	"	"	"	
Silver	0.0202	0.0200	"	"	"	"	"	"	
Zinc	13.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	38.4	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	36.7	0.0500	"	"	"	"	"	"	
Sodium	102	0.0500	"	"	"	"	"	"	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 5 3FT
2404281-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.82	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.4		%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.28	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 5 8FT
2404281-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0745	04/22/24	05/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.71	0.200	mg/kg dry	1	BHD1030	04/29/24	05/23/24	EPA 6020B	
Barium	38.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.27	0.400	"	"	"	"	"	"	
Lead	5.87	0.200	"	"	"	"	"	"	
Nickel	3.37	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0868	04/24/24	04/24/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	30.7	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	14.3	0.0500	"	"	"	"	"	"	
Sodium	38.7	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

BKG 5 8FT
2404281-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.45	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.3		%	1	BHD0762	04/22/24	04/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.747	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHD0629 - EPA 5030 Soil MS

Blank (BHD0629-BLK1)

Prepared: 04/18/24 Analyzed: 04/19/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0485		"	0.0400		121	50-150			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.3	50-150			

LCS (BHD0629-BS1)

Prepared: 04/18/24 Analyzed: 04/19/24

Benzene	0.0826	0.0020	mg/kg	0.100		82.6	70-130			
Toluene	0.0895	0.0050	"	0.100		89.5	70-130			
Ethylbenzene	0.0974	0.0050	"	0.100		97.4	70-130			
m,p-Xylene	0.183	0.010	"	0.200		91.4	70-130			
o-Xylene	0.0917	0.0050	"	0.100		91.7	70-130			
1,2,4-Trimethylbenzene	0.0909	0.0050	"	0.100		90.9	70-130			
1,3,5-Trimethylbenzene	0.0926	0.0050	"	0.100		92.6	70-130			
Naphthalene	0.0890	0.0038	"	0.100		89.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0519		"	0.0400		130	50-150			
Surrogate: Toluene-d8	0.0378		"	0.0400		94.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0375		"	0.0400		93.8	50-150			

Matrix Spike (BHD0629-MS1)

Source: 2404279-01

Prepared: 04/18/24 Analyzed: 04/19/24

Benzene	0.0794	0.0020	mg/kg	0.100	ND	79.4	70-130			
Toluene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
Ethylbenzene	0.0893	0.0050	"	0.100	ND	89.3	70-130			
m,p-Xylene	0.169	0.010	"	0.200	ND	84.3	70-130			
o-Xylene	0.0837	0.0050	"	0.100	ND	83.7	70-130			
1,2,4-Trimethylbenzene	0.0816	0.0050	"	0.100	ND	81.6	70-130			
1,3,5-Trimethylbenzene	0.0838	0.0050	"	0.100	ND	83.8	70-130			
Naphthalene	0.0805	0.0038	"	0.100	ND	80.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0508		"	0.0400		127	50-150			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.3	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

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

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

Batch BHD0629 - EPA 5030 Soil MS

Matrix Spike Dup (BHD0629-MSD1)		Source: 2404279-01			Prepared: 04/18/24 Analyzed: 04/19/24					
Benzene	0.0922	0.0020	mg/kg	0.100	ND	92.2	70-130	14.9	30	
Toluene	0.0973	0.0050	"	0.100	ND	97.3	70-130	15.9	30	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	14.7	30	
m,p-Xylene	0.192	0.010	"	0.200	ND	95.9	70-130	12.9	30	
o-Xylene	0.0960	0.0050	"	0.100	ND	96.0	70-130	13.7	30	
1,2,4-Trimethylbenzene	0.0918	0.0050	"	0.100	ND	91.8	70-130	11.8	30	
1,3,5-Trimethylbenzene	0.0946	0.0050	"	0.100	ND	94.6	70-130	12.0	30	
Naphthalene	0.0834	0.0038	"	0.100	ND	83.4	70-130	3.52	30	
Surrogate: 1,2-Dichloroethane-d4		0.0517	"	0.0400		129	50-150			
Surrogate: Toluene-d8		0.0387	"	0.0400		96.8	50-150			
Surrogate: 4-Bromofluorobenzene		0.0386	"	0.0400		96.4	50-150			

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Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHD0633 - EPA 3550A

Blank (BHD0633-BLK1)

Prepared: 04/18/24 Analyzed: 04/19/24

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

Surrogate: o-Terphenyl	15.3	"	12.5	122	30-150
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LCS (BHD0633-BS1)

Prepared: 04/18/24 Analyzed: 04/19/24

C10-C28 (DRO)	456	50	mg/kg	500	91.2	70-130
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Surrogate: o-Terphenyl	17.9	"	12.5	143	30-150
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Matrix Spike (BHD0633-MS1)

Source: 2404279-01

Prepared: 04/18/24 Analyzed: 04/19/24

C10-C28 (DRO)	441	50	mg/kg	500	17.0	84.7	70-130
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Surrogate: o-Terphenyl	12.8	"	12.5	102	30-150
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Matrix Spike Dup (BHD0633-MSD1)

Source: 2404279-01

Prepared: 04/18/24 Analyzed: 04/19/24

C10-C28 (DRO)	423	50	mg/kg	500	17.0	81.3	70-130	4.02	20
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Surrogate: o-Terphenyl	13.2	"	12.5	105	30-150
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Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0530 - EPA 5030 Soil MS

Blank (BHD0530-BLK1)

Prepared & Analyzed: 04/17/24

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0378		"	0.0333		114		40-150			
Surrogate: Fluoranthene-d10	0.0189		"	0.0333		56.6		40-150			

LCS (BHD0530-BS1)

Prepared & Analyzed: 04/17/24

Acenaphthene	0.0283	0.00500	mg/kg	0.0333		84.8		31-137			
Anthracene	0.0279	0.00500	"	0.0333		83.6		30-120			
Benzo (a) anthracene	0.0251	0.00500	"	0.0333		75.4		30-120			
Benzo (a) pyrene	0.0241	0.00500	"	0.0333		72.3		30-120			
Benzo (b) fluoranthene	0.0236	0.00500	"	0.0333		70.7		30-120			
Benzo (k) fluoranthene	0.0284	0.00500	"	0.0333		85.2		30-120			
Chrysene	0.0289	0.00500	"	0.0333		86.6		30-120			
Dibenz (a,h) anthracene	0.0187	0.00500	"	0.0333		56.0		30-120			
Fluoranthene	0.0270	0.00500	"	0.0333		80.9		30-120			
Fluorene	0.0283	0.00500	"	0.0333		84.8		30-120			
Indeno (1,2,3-cd) pyrene	0.0192	0.00500	"	0.0333		57.5		30-120			
Pyrene	0.0319	0.00500	"	0.0333		95.7		35-142			
1-Methylnaphthalene	0.0323	0.00500	"	0.0333		96.9		35-142			
2-Methylnaphthalene	0.0327	0.00500	"	0.0333		98.0		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0311		"	0.0333		93.4		40-150			
Surrogate: Fluoranthene-d10	0.0202		"	0.0333		60.7		40-150			

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Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0530 - EPA 5030 Soil MS

Matrix Spike (BHD0530-MS1)

Source: 2404279-01

Prepared & Analyzed: 04/17/24

Acenaphthene	0.0160	0.00500	mg/kg	0.0333	ND	48.0	31-137		
Anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120		
Benzo (a) anthracene	0.0219	0.00500	"	0.0333	ND	65.6	30-120		
Benzo (a) pyrene	0.0192	0.00500	"	0.0333	ND	57.5	30-120		
Benzo (b) fluoranthene	0.0187	0.00500	"	0.0333	ND	56.0	30-120		
Benzo (k) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.1	30-120		
Chrysene	0.0209	0.00500	"	0.0333	ND	62.7	30-120		
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	ND	53.9	30-120		
Fluoranthene	0.0261	0.00500	"	0.0333	ND	78.4	30-120		
Fluorene	0.0166	0.00500	"	0.0333	ND	49.8	30-120		
Indeno (1,2,3-cd) pyrene	0.0183	0.00500	"	0.0333	ND	54.8	30-120		
Pyrene	0.0290	0.00500	"	0.0333	ND	86.9	35-142		
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.7	15-130		
2-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.5	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0145		"	0.0333		43.5	40-150		
Surrogate: Fluoranthene-d10	0.0140		"	0.0333		42.1	40-150		

Matrix Spike Dup (BHD0530-MSD1)

Source: 2404279-01

Prepared & Analyzed: 04/17/24

Acenaphthene	0.0166	0.00500	mg/kg	0.0333	ND	49.8	31-137	3.75	30	
Anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	0.0558	30	
Benzo (a) anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120	4.69	30	
Benzo (a) pyrene	0.0203	0.00500	"	0.0333	ND	60.8	30-120	5.67	30	
Benzo (b) fluoranthene	0.0177	0.00500	"	0.0333	ND	53.2	30-120	5.26	30	
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	1.68	30	
Chrysene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	5.49	30	
Dibenz (a,h) anthracene	0.0192	0.00500	"	0.0333	ND	57.6	30-120	6.70	30	
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	30.1	30	QR-02
Fluorene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	8.72	30	
Indeno (1,2,3-cd) pyrene	0.0192	0.00500	"	0.0333	ND	57.6	30-120	5.00	30	
Pyrene	0.0218	0.00500	"	0.0333	ND	65.4	35-142	28.2	30	
1-Methylnaphthalene	0.0223	0.00500	"	0.0333	ND	67.0	15-130	35.8	50	
2-Methylnaphthalene	0.0212	0.00500	"	0.0333	ND	63.7	15-130	35.6	50	
Surrogate: 2-Methylnaphthalene-d10	0.0177		"	0.0333		53.0	40-150			
Surrogate: Fluoranthene-d10	0.0155		"	0.0333		46.5	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

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

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

Batch BHD0745 - EPA 3050B

Blank (BHD0745-BLK1)

Prepared: 04/22/24 Analyzed: 05/29/24

Boron ND 2.00 mg/L

LCS (BHD0745-BS1)

Prepared: 04/22/24 Analyzed: 05/29/24

Boron 5.31 2.00 mg/L 5.00 106 80-120

Duplicate (BHD0745-DUP1)

Source: 2404279-01

Prepared: 04/22/24 Analyzed: 05/29/24

Boron 0.171 2.00 mg/L 0.455 90.9 20 QR-01

Matrix Spike (BHD0745-MS1)

Source: 2404279-01

Prepared: 04/22/24 Analyzed: 05/29/24

Boron 5.52 2.00 mg/L 5.05 0.455 100 75-125

Matrix Spike Dup (BHD0745-MSD1)

Source: 2404279-01

Prepared: 04/22/24 Analyzed: 05/29/24

Boron 5.78 2.00 mg/L 5.05 0.455 105 75-125 4.69 25

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Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD1030 - EPA 3050B

Blank (BHD1030-BLK1)

Prepared: 04/29/24 Analyzed: 05/22/24

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

LCS (BHD1030-BS1)

Prepared: 04/29/24 Analyzed: 05/22/24

Arsenic	34.7	0.200	mg/kg wet	40.0	86.7	80-120
Barium	37.2	0.400	"	40.0	92.9	80-120
Cadmium	1.92	0.200	"	2.00	96.0	80-120
Copper	38.9	0.400	"	40.0	97.4	80-120
Lead	18.7	0.200	"	20.0	93.4	80-120
Nickel	38.0	0.400	"	40.0	95.1	80-120
Silver	1.95	0.0200	"	2.00	97.7	80-120
Zinc	37.8	0.400	"	40.0	94.4	80-120
Selenium	4.56	0.260	"	4.00	114	80-120

Duplicate (BHD1030-DUP1)

Source: 2404281-01

Prepared: 04/29/24 Analyzed: 05/23/24

Arsenic	3.07	0.200	mg/kg dry	3.21	4.39	20
Barium	64.1	0.400	"	78.0	19.5	20
Cadmium	0.147	0.200	"	0.171	15.5	20
Copper	3.11	0.400	"	3.30	5.84	20
Lead	5.16	0.200	"	5.62	8.57	20
Nickel	4.65	0.400	"	5.11	9.43	20
Silver	0.0139	0.0200	"	0.0182	27.1	20
Zinc	15.4	0.400	"	15.1	2.20	20
Selenium	ND	0.260	"	ND		20

QR-01

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Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD1030 - EPA 3050B

Matrix Spike (BHD1030-MS1)		Source: 2404281-01			Prepared: 04/29/24 Analyzed: 05/23/24					
Arsenic	42.8	0.200	mg/kg dry	44.8	3.21	88.3	75-125			
Barium	115	0.400	"	44.8	78.0	82.7	75-125			
Cadmium	2.45	0.200	"	2.24	0.171	102	75-125			
Copper	28.1	0.400	"	44.8	3.30	55.4	75-125			QM-05
Lead	26.5	0.200	"	22.4	5.62	93.1	75-125			
Nickel	29.8	0.400	"	44.8	5.11	55.2	75-125			QM-05
Silver	2.19	0.0200	"	2.24	0.0182	97.0	75-125			
Zinc	40.1	0.400	"	44.8	15.1	55.8	75-125			QM-05
Selenium	4.74	0.260	"	4.48	ND	106	75-125			

Matrix Spike Dup (BHD1030-MSD1)		Source: 2404281-01			Prepared: 04/29/24 Analyzed: 05/23/24					
Arsenic	43.4	0.200	mg/kg dry	44.8	3.21	89.6	75-125	1.34	25	
Barium	116	0.400	"	44.8	78.0	84.8	75-125	0.825	25	
Cadmium	2.37	0.200	"	2.24	0.171	98.2	75-125	3.11	25	
Copper	28.4	0.400	"	44.8	3.30	56.1	75-125	0.981	25	QM-05
Lead	26.5	0.200	"	22.4	5.62	93.1	75-125	0.0170	25	
Nickel	29.8	0.400	"	44.8	5.11	55.2	75-125	0.0135	25	QM-05
Silver	2.18	0.0200	"	2.24	0.0182	96.5	75-125	0.513	25	
Zinc	40.9	0.400	"	44.8	15.1	57.6	75-125	2.03	25	QM-05
Selenium	4.67	0.260	"	4.48	ND	104	75-125	1.60	25	

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Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHD0868 - 3060A Mod

Blank (BHD0868-BLK1)

Prepared & Analyzed: 04/24/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0868-BS1)

Prepared & Analyzed: 04/24/24

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BHD0868-DUP1)

Source: 2402268-01

Prepared & Analyzed: 04/24/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0868-MS1)

Source: 2402268-01

Prepared & Analyzed: 04/24/24

Chromium, Hexavalent 29.9 0.30 mg/kg dry 30.3 ND 98.6 75-125

Matrix Spike Dup (BHD0868-MSD1)

Source: 2402268-01

Prepared & Analyzed: 04/24/24

Chromium, Hexavalent 29.9 0.30 mg/kg dry 30.3 ND 98.8 75-125 0.203 20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

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

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

Batch BHE0033 - General Preparation

Blank (BHE0033-BLK1)

Prepared: 05/01/24 Analyzed: 05/06/24

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

LCS (BHE0033-BS1)

Prepared: 05/01/24 Analyzed: 05/06/24

Calcium	5.16	0.0500	mg/L wet	5.00	103	70-130
Magnesium	4.83	0.0500	"	5.00	96.5	70-130
Sodium	4.85	0.0500	"	5.00	97.0	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Webster 15-28 (SI/BKG)	
PO Box 1289	Project Number: UWRWE-A1884-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	05/30/24 16:15

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

Summit Scientific

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

Batch BHD0762 - General Preparation

Duplicate (BHD0762-DUP2)	Source: 2404258-01		Prepared: 04/22/24 Analyzed: 04/24/24		
% Solids	89.7	%	90.2	0.471	20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)

Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

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

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

Batch BHE0034 - General Preparation

Blank (BHE0034-BLK1)

Prepared: 05/01/24 Analyzed: 05/03/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHE0034-BS1)

Prepared: 05/01/24 Analyzed: 05/03/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHE0034-DUP1)

Source: 2404273-01

Prepared: 05/01/24 Analyzed: 05/03/24

Specific Conductance (EC) 0.342 0.0100 mmhos/cm 0.343 0.526 20

Summit Scientific

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Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)

Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

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

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

Batch BHE0035 - General Preparation

LCS (BHE0035-BS1)

Prepared: 05/01/24 Analyzed: 05/03/24

pH	9.14	pH Units	9.18	99.6	95-105
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Duplicate (BHE0035-DUP1)

Source: 2404273-01

Prepared: 05/01/24 Analyzed: 05/03/24

pH	8.49	pH Units	8.50	0.118	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (SI/BKG)

Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
05/30/24 16:15

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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.
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