

September 3, 2024

Noble Energy, Inc – Loustalet-64N64W 30NESE

Site Investigation Update

NESE Sec 30, T4N, R64W

40.281460, -104.586420

Weld County, Colorado

Fremont Project No. C023-134

Facility # 327430, Remediation # 26975

Site Overview – Site History

The site consists of the former Loustalet-64N64W 30NESE facility. A historical release was identified at the produced water vault (PWV) and above ground storage tank (AST) during decommissioning activities on May 15, 2023. A comprehensive site investigation was undertaken on August 21, 2024 to define the magnitude and extent of soil impacts. Soil impacts will be removed via excavation at and adjacent to the former PWV and AST location. The proposed dimensions of the excavation extent are estimated to be 60'x75'x24' deep. Groundwater was encountered at approximately 17 feet below ground surface (bgs) during the site investigation.

Conceptual Site Model*

*Data presented represents the most recent sampling event

- **Land Use** – Agricultural Rangeland
- **Lithology (USCS)** – SW underlain by CL
- **Potential Receptors within ¼ mile** – Intermittent Riverine Wetlands 0.17mi ESE (Neres Canal)
- Palustrine Wetlands 0.18mi ESE, 0.23mi SE
- **Groundwater Encountered** – Yes
- **Estimated Depth to Groundwater** – 17 feet
- **Impacted Media and Excavation Extent** – Soil and groundwater – 60'x75'x24' deep
- **Volume of Impacts Removed** – Impacts remain in situ
- **Waste Type** – Non-hazardous

Contaminants of Concern (COC)

The laboratory data indicate organic and inorganic soil constituents in 12 of the 22 samples exceed the ECMC Table 915-1 standards in samples collected during the August 21, 2024 supplemental site investigation conducted at and adjacent to the former PWV and AST locations. COCs include benzene, ethylbenzene, xylenes, naphthalene, 1,2,4-and-1,3,5 TMBs, TPH, 1-and-2 methylnaphthalene, pH, cadmium, lead, nickel, and arsenic. The soil analytical data are summarized in Tables 2-5.

The source soil boring was completed as a one-inch PVC, stickup, groundwater monitoring well to a total depth of 20 feet bgs. Groundwater was encountered at 17.76 feet bgs in the monitoring well and was sampled for Table 915 organic and inorganic constituents in groundwater (BTEX, 1,2,4 Trimethylbenzene, 1,3,5 Trimethylbenzene, and Naphthalene). Groundwater COCs include benzene, ethylbenzene, xylenes, 1,2,4-and-1,3,5 TMBs. A copy of the laboratory's report, quality control data, and chain-of-custody documentation is attached.

Remedial Actions

The source will be excavated, and confirmation soil samples will be collected and analyzed for the full Table 915 suite of organic and inorganic constituents. Groundwater sample(s) will be collected for Table 915-1 organic constituents in groundwater (BTEX, 1,2,4 Trimethylbenzene, 1,3,5 Trimethylbenzene, and Naphthalene). Should no additional active remediation be required following source removal at the location, a no further action (NFA) determination will be requested within 90 days following laboratory confirmation of the removal of impacted soils concerning the applicable Table 915-1 screening levels at the site.

If residual groundwater impacts are observed, an NFA will be requested once four consecutive quarters of groundwater sampling have been completed and reported at the location with concentrations of Table 915 constituents below regulatory limits. As needed, soil and/or groundwater remediation plans will be developed and submitted to ECMC in a supplemental Form 27.

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.**



9/3/24

Date _____

Jeff T. Griggs
Geologist

Reviewed by:



9/3/24

Date _____

Paul V. Henehan, P.E.
Senior Consultant

Attachments:

Tables

Figures

Boring Logs

Laboratory Report

Appendix :

Appendix A: Groundwater Sampling Plan

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
LOUSTALET-64N64W 30NESE, WELD COUNTY, COLORADO
REM # 26975

Sample ID	Sample Date	Depth	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
SEP01@5.5' (SB)	8/21/2024	5.5 Ft	40.2814470	-104.5864630	1.00	Refer to Bore Logs
SEP02@5.5' (SB)	8/21/2024	5.5 Ft	40.2814810	-104.5864620	1.00	Refer to Bore Logs
SB-1	8/21/2024	15.0 Ft	40.2813674	-104.5867973	1.90	Refer to Bore Logs
MW-1	8/21/2024	20.0 Ft	40.2814350	-104.5867956	1.80	Refer to Bore Logs
SB-3	8/21/2024	22.0 Ft	40.2814858	-104.5867931	1.90	Refer to Bore Logs
SB-4	8/21/2024	24.0 Ft	40.2814343	-104.5867304	1.80	Refer to Bore Logs
SB-5	8/21/2024	14.0 Ft	40.2814351	-104.5866556	1.80	Refer to Bore Logs
SB-6	8/21/2024	18.0 Ft	40.2814340	-104.5865903	1.80	Refer to Bore Logs
SB-7	8/21/2024	1.0 Ft	40.2813206	-104.5868010	1.20	Refer to Bore Logs
SB-8	8/21/2024	20.0 Ft	40.2813678	-104.5868558	0.90	Refer to Bore Logs
SB-9	8/21/2024	15.0 Ft	40.2813630	-104.5866650	0.90	Refer to Bore Logs
SB-10	8/21/2024	18.0 Ft	40.2813613	-104.5865913	0.90	Refer to Bore Logs

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

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

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

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

= Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
LOUSTALET-64N64W 30NESE, WELD COUNTY, COLORADO
REM # 26975

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**		
AST01@4.0'	5/15/2023	4.0 Ft	0.052	0.63	<0.050	6.7	2.8	1.9	0.14	<500	130	95	<50
SEP01@5.5'	5/15/2023	5.5 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP02@5.5'	5/15/2023	5.5 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWVB01@7.0'	5/15/2023	7.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWVN01@6.0'	5/15/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	0.14	<0.0038	<500	3.8	<50	<50
PWVS01@6.0'	5/15/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWVE01@6.0'	5/15/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWVW01@6.0'	5/15/2023	6.0 Ft	<0.0020	<0.0050	0.24	14	<0.0050	13	1.7	7,832	7600	180	52
SB-1 (15.0')	8/21/2024	15.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-1 (20.0')	8/21/2024	20.0 Ft	<0.0020	<0.0050	0.42	<0.010	<0.0050	<0.0050	0.069	<500	<0.50	320	54
SB-1 (22.0')	8/21/2024	22.0 Ft	0.29	0.15	0.23	1.6	0.46	0.29	0.11	<500	79	120	<50
SB-1 (24.0')	8/21/2024	24.0 Ft	0.18	0.12	0.057	0.43	0.066	0.037	0.032	<500	7.7	<50	<50
MW-1 (14.0')	8/21/2024	14.0 Ft	0.062	<0.0050	<0.0050	14	7.9	5.2	0.21	1,397	370	940	87
MW-1 (18.0')	8/21/2024	18.0 Ft	<0.0020	4.8	1.2	20	5.7	3.9	0.15	950	780	120	<50
SB-3 (1.0')	8/21/2024	1.0 Ft	0.0037	0.075	0.038	0.99	0.38	0.23	0.018	<500	8.8	<50	<50
SB-3 (20.0')	8/21/2024	20.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-4 (15.0')	8/21/2024	15.0 Ft	<0.0020	0.016	<0.0050	3.9	1.7	1.7	0.067	<500	130	170	<50
SB-4 (18.0')	8/21/2024	18.0 Ft	0.48	0.53	0.11	1.6	0.21	0.15	0.012	<500	35	<50	<50
SB-5 (17.0')	8/21/2024	17.0 Ft	<0.0020	5.3	0.50	12	2.2	0.59	0.038	<500	210	73	<50
SB-5 (20.0')	8/21/2024	20.0 Ft	<0.0020	0.0053	0.0060	0.10	0.055	0.035	0.0050	<500	6.3	<50	<50
SB-6 (16.0')	8/21/2024	16.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-6 (20.0')	8/21/2024	20.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-7 (16.0')	8/21/2024	16.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-7 (19.0')	8/21/2024	19.0 Ft	0.31	0.23	0.0065	0.093	0.0074	<0.0050	<0.0038	<500	2.1	<50	<50
SB-8 (15.0')	8/21/2024	15.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-8 (19.0')	8/21/2024	19.0 Ft	0.019	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-9 (16.0')	8/21/2024	16.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	0.0059	<0.0038	<500	<0.50	<50	<50
SB-9 (18.0')	8/21/2024	18.0 Ft	<0.0020	0.87	1.2	28	15	9.6	0.59	1,450	790	610	<50

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**		
SB-10 (16.0')	8/21/2024	16.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-10 (20.0')	8/21/2024	20.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

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

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

3. * Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

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

 = Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
LOUSTALET-64N64W 30NESE, WELD COUNTY, COLORADO
REM # 26975

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
AST01@4.0'	5/15/2023	4.0 Ft	<0.00500	<0.00500	0.00980	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0322	<0.00500	<0.00500	0.415	0.889
SEP01@5.5'	5/15/2023	5.5 Ft	<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
SEP02@5.5'	5/15/2023	5.5 Ft	<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
PWVB01@7.0'	5/15/2023	7.0 Ft	<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
PWVN01@6.0'	5/15/2023	6.0 Ft	<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
PWVS01@6.0'	5/15/2023	6.0 Ft	<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
PWVE01@6.0'	5/15/2023	6.0 Ft	<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
PWVW01@6.0'	5/15/2023	6.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0705	<0.00500	0.0168	1.18	2.87
SB-1 (15.0')	8/21/2024	15.0 Ft	<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-1 (20.0')	8/21/2024	20.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0219	<0.00500	<0.00500	0.0261	0.0408
SB-1 (22.0')	8/21/2024	22.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00672	<0.00500	<0.00500	0.0198	0.0316
SB-1 (24.0')	8/21/2024	24.0 Ft	<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 (14.0')	8/21/2024	14.0 Ft	<0.00500	<0.00500	0.00806	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.359	0.661
MW-1 (18.0')	8/21/2024	18.0 Ft	<0.00500	<0.00500	0.0121	<0.00500	<0.00500	<0.00500	0.00677	<0.00500	<0.00500	<0.00500	<0.00500	0.00550	0.393	0.597
SB-3 (1.0')	8/21/2024	1.0 Ft	<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-3 (20.0')	8/21/2024	20.0 Ft	<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-4 (15.0')	8/21/2024	15.0 Ft	<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-4 (18.0')	8/21/2024	18.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0412	0.0956
SB-5 (17.0')	8/21/2024	17.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0115	0.0309
SB-5 (20.0')	8/21/2024	20.0 Ft	<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 (16.0')	8/21/2024	16.0 Ft	<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 (20.0')	8/21/2024	20.0 Ft	<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-7 (16.0')	8/21/2024	16.0 Ft	<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-7 (19.0')	8/21/2024	19.0 Ft	<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-8 (15.0')	8/21/2024	15.0 Ft	<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-8 (19.0')	8/21/2024	19.0 Ft	<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-9 (16.0')	8/21/2024	16.0 Ft	<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-9 (18.0')	8/21/2024	18.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0392	0.0889
SB-10 (16.0')	8/21/2024	16.0 Ft	<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-10 (20.0')	8/21/2024	20.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

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

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

3. * Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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

 = Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
LOUSTALET-64N64W 30NESE, WELD COUNTY, COLORADO
REM # 26975

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
AST01@4.0'	5/15/2023	4.0 Ft	6.51	0.705	1.83	0.216
SEP01@5.5'	5/15/2023	5.5 Ft	5.33	0.151	0.0876	0.162
SEP02@5.5'	5/15/2023	5.5 Ft	5.47	0.187	0.138	0.181
PWVB01@7.0'	5/15/2023	7.0 Ft	7.00	0.210	0.0832	0.197
PWVN01@6.0'	5/15/2023	6.0 Ft	6.55	0.217	0.302	0.160
PWVS01@6.0'	5/15/2023	6.0 Ft	6.24	0.186	0.848	0.132
PWVE01@6.0'	5/15/2023	6.0 Ft	5.85	0.0877	0.386	0.0904
PWVW01@6.0'	5/15/2023	6.0 Ft	5.78	0.214	1.34	0.677
BKG01@6.0"	5/15/2023	0.5 Ft	5.06	0.0499	0.0290	0.139
SEP01@5.5' (SB)	8/21/2024	5.5 Ft	7.64	NA	NA	NA
SEP02@5.5' (SB)	8/21/2024	5.5 Ft	7.22	NA	NA	NA
SB-1 (15.0')	8/21/2024	15.0 Ft	9.06	0.202	1.18	<2.00
SB-1 (20.0')	8/21/2024	20.0 Ft	8.16	0.419	1.15	<2.00
SB-1 (22.0')	8/21/2024	22.0 Ft	8.13	0.571	4.68	<2.00
SB-1 (24.0')	8/21/2024	24.0 Ft	7.50	0.186	0.896	<2.00
MW-1 (14.0')	8/21/2024	14.0 Ft	8.41	0.261	0.0781	<2.00
MW-1 (18.0')	8/21/2024	18.0 Ft	8.32	0.264	0.332	<2.00
SB-3 (1.0')	8/21/2024	1.0 Ft	7.35	1.01	0.701	<2.00
SB-3 (20.0')	8/21/2024	20.0 Ft	8.45	0.202	1.01	<2.00
SB-4 (15.0')	8/21/2024	15.0 Ft	8.41	0.301	0.507	<2.00
SB-4 (18.0')	8/21/2024	18.0 Ft	8.16	0.380	0.357	<2.00
SB-5 (17.0')	8/21/2024	17.0 Ft	8.71	0.146	0.500	<2.00

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
SB-5 (20.0')	8/21/2024	20.0 Ft	8.44	0.158	0.547	<2.00
SB-6 (16.0')	8/21/2024	16.0 Ft	8.44	0.352	0.561	<2.00
SB-6 (20.0')	8/21/2024	20.0 Ft	8.07	0.316	1.10	<2.00
SB-7 (16.0')	8/21/2024	16.0 Ft	8.87	0.241	1.24	<2.00
SB-7 (19.0')	8/21/2024	19.0 Ft	8.04	0.466	3.19	<2.00
SB-8 (15.0')	8/21/2024	15.0 Ft	8.98	0.443	2.09	<2.00
SB-8 (19.0')	8/21/2024	19.0 Ft	8.52	0.150	0.527	<2.00
SB-9 (16.0')	8/21/2024	16.0 Ft	8.21	0.256	1.09	<2.00
SB-9 (18.0')	8/21/2024	18.0 Ft	8.25	0.175	0.890	<2.00
SB-10 (16.0')	8/21/2024	16.0 Ft	8.43	0.258	0.164	<2.00
SB-10 (20.0')	8/21/2024	20.0 Ft	7.94	0.177	0.913	<2.00
Maximum Root Background Concentration (0 - 3 ft)			5.06	0.0499	0.0290	0.139
Average Root Background Concentration (0 - 3 ft)			5.06	0.0499	0.0290	0.139
Maximum Background Concentration			NA	NA	NA	NA
Average Background Concentration			NA	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.

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
125% Average Background Concentration			NA	NA	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

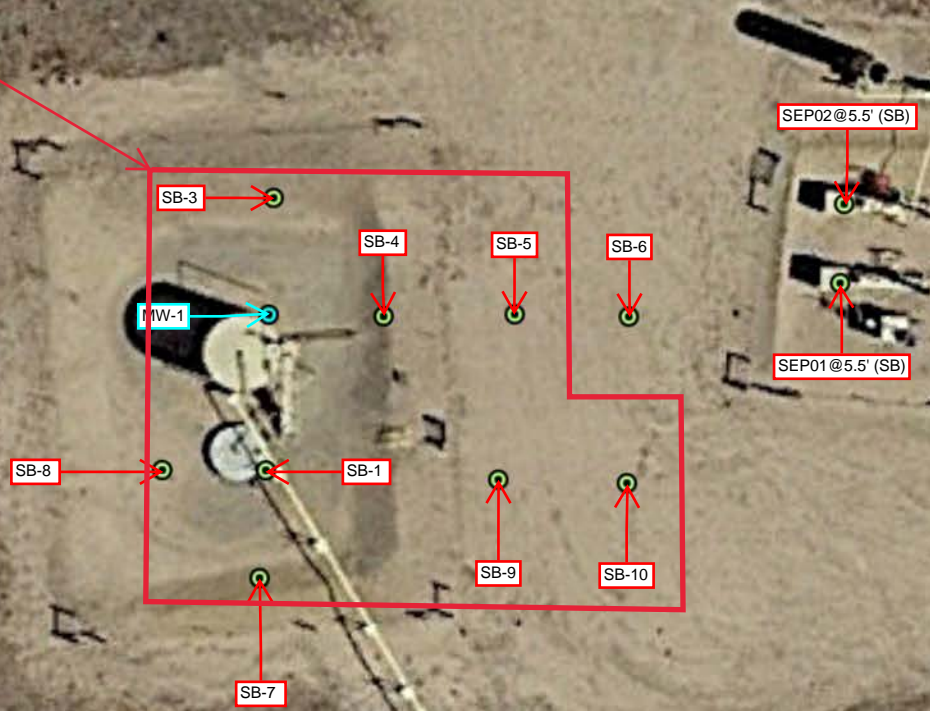
 = Source material characterization sample, excavated and transported off site for disposal.

 = Material excavated and transported off site for disposal.

Loustalet-64N64W 30NESE

Remediation #: 26975
Facility ID: 327430
Lat/Long: 40.281392, -104.586813
NESE Sec. 30, T4N, R64W
Fremont Proj. C023-134

Proposed Ex.
Extent: 60'x75'x24'
deep



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 03, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Loustalet -64N64W 30NESE

Work Order #2408239

Enclosed are the results of analyses for samples received by Summit Scientific on 08/21/24 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury

President



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01@5.5' (SB)	2408239-01	Soil	08/21/24 00:00	08/21/24 16:10
SEP02@5.5' (SB)	2408239-02	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (15.0')	2408239-03	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (20.0')	2408239-04	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (22.0')	2408239-05	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (24.0')	2408239-06	Soil	08/21/24 00:00	08/21/24 16:10
MW-1 (14.0')	2408239-07	Soil	08/21/24 00:00	08/21/24 16:10
MW-1 (18.0')	2408239-08	Soil	08/21/24 00:00	08/21/24 16:10
SB-3 (1.0')	2408239-09	Soil	08/21/24 00:00	08/21/24 16:10
SB-3 (20.0')	2408239-10	Soil	08/21/24 00:00	08/21/24 16:10
SB-4 (15.0')	2408239-11	Soil	08/21/24 00:00	08/21/24 16:10
SB-4 (18.0')	2408239-12	Soil	08/21/24 00:00	08/21/24 16:10
SB-5 (17.0')	2408239-13	Soil	08/21/24 00:00	08/21/24 16:10
SB-5 (20.0')	2408239-14	Soil	08/21/24 00:00	08/21/24 16:10
SB-6 (16.0')	2408239-15	Soil	08/21/24 00:00	08/21/24 16:10
SB-6 (20.0')	2408239-16	Soil	08/21/24 00:00	08/21/24 16:10
SB-7 (16.0')	2408239-17	Soil	08/21/24 00:00	08/21/24 16:10
SB-7 (19.0')	2408239-18	Soil	08/21/24 00:00	08/21/24 16:10
SB-8 (15.0')	2408239-19	Soil	08/21/24 00:00	08/21/24 16:10
SB-8 (19.0')	2408239-20	Soil	08/21/24 00:00	08/21/24 16:10
SB-9 (16.0')	2408239-21	Soil	08/21/24 00:00	08/21/24 16:10
SB-9 (18.0')	2408239-22	Soil	08/21/24 00:00	08/21/24 16:10
SB-10 (16.0')	2408239-23	Soil	08/21/24 00:00	08/21/24 16:10
SB-10 (20.0')	2408239-24	Soil	08/21/24 00:00	08/21/24 16:10
MW-1	2408239-25	Water	08/21/24 00:00	08/21/24 16:10

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

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 <u>1</u> of <u>2</u>
<u>2408239.1</u>	

Send Data To:		Send Invoice To:	
Client: <u>Fremont Env</u>	Project Manager: <u>Paul Heneman</u>	Company: <u>Noble</u>	
Address:	E-Mail: <u>Paulh@fremontenv.com</u>	Project Name/Location:	
City/State/Zip:	<u>jeff@fremontenv.com Eth@fremontenv.com</u>	AFE#:	
Phone:	Project Name: <u>Loustalet-64NG4U 3ONESE</u>	PO/Billing Codes:	
Sampler Name: <u>JG</u>	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions							
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	DR0,OR0,GRO	PAHs (915)	EC-PH,S APs Boron		Metals (915)	PH Only	TDS,Cl,Sulfides				
1	SEPO125.5' (SB)	8/21/24		1			X			X															
2	SEPO225.5' (SB)			1																					
3	SB-1 (15.0')			1																					
4	SB-1 (20.0')			1																					
5	SB-1 (22.0')			1																					
6	SB-1 (24.0')			1																					
7	MW-1 (14.0')			1																					
8	MW-1 (18.0')			1																					
9	SB-3 (1.0')			1																					
10	SB-2 (20.0')			1																					
11	SB-4 (15.0')			1																					
12	SB-4 (18.0')			1																					
13	SB-5 (17.0')			1																					
14	SB-5 (20.0')			1																					
15	SB-6 (16.0')			1																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/21/24</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/21/24 16:10</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>65</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2408239.2	

Send Data To:		Send Invoice To:	
Client: <u>Fremont Env</u>	Project Manager: <u>Paul Henchen</u>	Company: <u>Noble</u>	
Address:	E-Mail: <u>Paulh@fremontenv.com</u>	Project Name/Location:	
City/State/Zip:	<u>jc@fremontenv.com Ethenb@fremontenv.com</u>	AFE#:	
Phone:	Project Name: <u>Loustalet-G4NG4W 3ONESE</u>	PO/Billing Codes:	
Sampler Name: <u>JG</u>	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	DRD,ORO,GRO	PAHs (915)	EC,PH,SAP, Boron	Metals (915)		PH Only
1	SB-6 (20.0')	8/21/24		2			X			X			X	X	X	X	X			
2	SB-7 (16.0')	↓																		
3	SB-7 (19.0')																			
4	SB-8 (15.0')																			
5	SB-8 (19.0')																			
6	SB-9 (16.0')																			
7	SB-9 (18.0')																			
8	SB-10 (16.0')																			
9	SB-10 (20.0')															X	X	X	X	
10	MW-2		↓		4	X		X		X					↓	↓				X
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>[Signature]</u> Date/Time: <u>8/21/24</u>	Received by: <u>[Signature]</u> Date/Time: <u>8/21/24 16:10</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Received by:	Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
Relinquished by:	Received by:	2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>6.5</u>	Corrected Temperature _____	IR gun #: <u>2</u>	Field Turb. <input checked="" type="checkbox"/>	HNO3 lot #: _____

S₂

S2 Work Order# 2408239

Sample Receipt Checklist

Client: Firemont Client Project ID: Loustalet - 64N64W 30NESE

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

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

Temp (°C) 6.5 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe 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 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no relinquish time
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 checked="" type="checkbox"/>	<input 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 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.

Control Form #: SRC-001

AS

Custodian Printed Name

8/21/21

Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SEP01@5.5' (SB)

2408239-01 (Soil)

Summit Scientific

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.64		pH Units	1	BHH0624	08/22/24	08/22/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SEP02@5.5' (SB)
2408239-02 (Soil)

Summit Scientific

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.22		pH Units	1	BHH0624	08/22/24	08/22/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (15.0')
2408239-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0447	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.6	101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (15.0')
2408239-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0148	44.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (15.0')
2408239-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.09	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	28.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.15	0.400	"	"	"	"	"	"	
Lead	2.32	0.200	"	"	"	"	"	"	
Nickel	2.44	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.14	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.6	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	10.3	0.0500	"	"	"	"	"	"	
Sodium	34.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.18	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-1 (15.0')
2408239-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.2		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.202	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.06		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (20.0')
2408239-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.20	mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	0.42	0.0050	"	1	"	"	08/23/24	"	
Xylenes (total)	ND	1.0	"	100	"	"	08/26/24	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Naphthalene	0.069	0.0038	"	1	"	"	08/23/24	"	
Gasoline Range Hydrocarbons	ND	50	"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.221	553 %	50-150	"	"	"	08/23/24	"	S-02
Surrogate: Toluene-d8	0.321	802 %	50-150	"	"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.392	980 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	320	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	54	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	8.94	71.5 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (20.0')
2408239-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	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	0.0219	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0261	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0408	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00580	17.4 %	40-150		"	"	"	"	S-02
Surrogate: Fluoranthene-d10	0.0138	41.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-1 (20.0')
2408239-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.19	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	35.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.81	0.400	"	"	"	"	"	"	
Lead	3.00	0.200	"	"	"	"	"	"	
Nickel	3.97	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.3	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	5.94	0.0500	"	"	"	"	"	"	
Sodium	25.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.15	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-1 (20.0')
2408239-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.419	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (22.0')
2408239-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.29	0.0020	mg/kg	1	BHH0654	08/22/24	08/23/24	EPA 8260B	
Toluene	0.15	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.23	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.6	0.010	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	0.46	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.29	0.0050	"	"	"	"	"	"	
Naphthalene	0.11	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	79	0.50	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0476	119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0753	188 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0581	145 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	120	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.18	73.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (22.0')
2408239-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	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	0.00672	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0198	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0316	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0142	42.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (22.0')
2408239-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.72	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	46.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	15.4	0.400	"	"	"	"	"	"
Lead	10.2	0.200	"	"	"	"	"	"
Nickel	4.31	0.400	"	"	"	"	"	"
Silver	0.0329	0.0200	"	"	"	"	"	"
Zinc	12.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	5.89	0.0500	"	"	"	"	"	"	
Sodium	86.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.68	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-1 (22.0')
2408239-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.1		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.571	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (24.0')
2408239-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.18	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.12	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.057	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.43	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.066	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.037	0.0050	"	"	"	"	"	"	
Naphthalene	0.032	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	7.7	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0455	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.44	51.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (24.0')
2408239-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0149	44.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	60.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-1 (24.0')
2408239-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	7.30	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	75.9	0.400	"	"	"	"	"	"
Cadmium	0.581	0.200	"	"	"	"	"	"
Copper	32.7	0.400	"	"	"	"	"	"
Lead	24.6	0.200	"	"	"	"	"	"
Nickel	28.4	0.400	"	"	"	"	"	"
Silver	0.0374	0.0200	"	"	"	"	"	"
Zinc	151	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	4.87	0.0500	"	"	"	"	"	"	
Sodium	14.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.896	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-1 (24.0')
2408239-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.9	%	1	BHH0625	08/22/24	08/22/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.186	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.50		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**MW-1 (14.0')
2408239-07 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.062	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	ND	0.50	"	100	"	"	08/26/24	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	14	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	7.9	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	5.2	0.50	"	"	"	"	"	"	
Naphthalene	0.21	0.0038	"	1	"	"	08/24/24	"	
Gasoline Range Hydrocarbons	370	50	"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0418	105 %	50-150	"	"	"	08/24/24	"	
Surrogate: Toluene-d8	0.211	527 %	50-150	"	"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.276	691 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	940	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	87	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

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

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**MW-1 (14.0')
2408239-07 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00806	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	0.359	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.661	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0241	72.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**MW-1 (14.0')
2408239-07 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.17	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	38.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.32	0.400	"	"	"	"	"	"	
Lead	2.75	0.200	"	"	"	"	"	"	
Nickel	2.64	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	4.29	0.0500	"	"	"	"	"	"	
Sodium	1.68	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0781	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

**MW-1 (14.0')
 2408239-07 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.261	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**MW-1 (18.0')
2408239-08 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.20		mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	
Toluene	4.8	0.50		"	"	"	"	"	"	
Ethylbenzene	1.2	0.50		"	"	"	"	"	"	
Xylenes (total)	20	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	5.7	0.50		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.9	0.50		"	"	"	"	"	"	
Naphthalene	0.15	0.0038		"	1	"	"	08/24/24	"	
Gasoline Range Hydrocarbons	780	50		"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.327	817 %		50-150		"	"	08/24/24	"	S-02
Surrogate: Toluene-d8	0.00	%		50-150		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene	0.510	1280 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	120	50		mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.48	59.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**MW-1 (18.0')
2408239-08 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0121	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00677	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	0.00550	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.393	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.597	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0263	78.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 00:00**

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

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**MW-1 (18.0')
2408239-08 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.04	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	31.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.51	0.400	"	"	"	"	"	"	
Lead	2.73	0.200	"	"	"	"	"	"	
Nickel	3.34	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.5	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.63	0.0500	"	"	"	"	"	"	
Sodium	7.25	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.332	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

**MW-1 (18.0')
 2408239-08 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.264	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-3 (1.0')
2408239-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.0037	0.0020		mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.075	0.0050		"	"	"	"	"	"	
Ethylbenzene	0.038	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.99	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.38	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.23	0.0050		"	"	"	"	"	"	
Naphthalene	0.018	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.8	0.50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0467	117 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0421	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0447	112 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.28	74.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-3 (1.0')
2408239-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0233	69.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0280	84.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-3 (1.0')
2408239-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.45	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	30.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.09	0.400	"	"	"	"	"	"	
Lead	6.34	0.200	"	"	"	"	"	"	
Nickel	3.59	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.7	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	19.3	0.0500	"	"	"	"	"	"	
Sodium	27.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.701	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

**SB-3 (1.0')
 2408239-09 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.01	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.35		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-3 (20.0')
2408239-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHH0654	08/22/24	08/26/24	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: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0451	113 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.97	55.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-3 (20.0')
2408239-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-3 (20.0')
2408239-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	8.44	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	60.7	0.400	"	"	"	"	"	"
Cadmium	0.794	0.200	"	"	"	"	"	"
Copper	26.5	0.400	"	"	"	"	"	"
Lead	25.5	0.200	"	"	"	"	"	"
Nickel	40.3	0.400	"	"	"	"	"	"
Silver	0.0364	0.0200	"	"	"	"	"	"
Zinc	121	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.3	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.97	0.0500	"	"	"	"	"	"	
Sodium	17.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.01	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-3 (20.0')
2408239-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.7	%	1	BHH0625	08/22/24	08/22/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.202	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-4 (15.0')
2408239-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.016	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	3.9	0.010	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	1.7	0.0050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	1.7	0.0050	"	"	"	"	"	"	E
Naphthalene	0.067	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	130	0.50	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0829	207 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.187	466 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	170	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.8	94.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-4 (15.0')
2408239-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0154	46.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0137	41.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-4 (15.0')
2408239-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.18	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	43.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.65	0.400	"	"	"	"	"	"	
Lead	2.83	0.200	"	"	"	"	"	"	
Nickel	3.22	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.6	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.69	0.0500	"	"	"	"	"	"	
Sodium	13.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.507	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-4 (15.0')
2408239-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.301	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-4 (18.0')
2408239-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.48	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.53	0.050	"	10	"	"	08/26/24	"	
Ethylbenzene	0.11	0.0050	"	1	"	"	08/24/24	"	
Xylenes (total)	1.6	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.21	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.15	0.0050	"	"	"	"	"	"	
Naphthalene	0.012	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	35	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0429	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0491	123 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0456	114 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.89	79.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-4 (18.0')
2408239-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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	0.0412	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0956	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-4 (18.0')
2408239-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.957	0.180	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	43.0	0.360	"	"	"	"	"	"	
Cadmium	ND	0.180	"	"	"	"	"	"	
Copper	2.42	0.360	"	"	"	"	"	"	
Lead	2.98	0.180	"	"	"	"	"	"	
Nickel	2.76	0.360	"	"	"	"	"	"	
Silver	ND	0.0180	"	"	"	"	"	"	
Zinc	11.2	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	10.6	0.0500	"	"	"	"	"	"	
Sodium	9.15	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.357	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-4 (18.0')
2408239-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.380	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-5 (17.0')
2408239-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.20	mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	
Toluene	5.3	0.50	"	"	"	"	"	"	
Ethylbenzene	0.50	0.0050	"	1	"	"	08/24/24	"	
Xylenes (total)	12	1.0	"	100	"	"	08/26/24	"	
1,2,4-Trimethylbenzene	2.2	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.59	0.0050	"	1	"	"	08/24/24	"	
Naphthalene	0.038	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	210	50	"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0379	94.6 %	50-150		"	"	08/24/24	"	
Surrogate: Toluene-d8	0.0688	172 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0593	148 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	73	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.00	72.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-5 (17.0')
2408239-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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	0.0115	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0309	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 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	0.0195	58.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-5 (17.0')
2408239-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.12	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	34.9	0.400	"	"	"	"	"	"
Cadmium	0.200	0.200	"	"	"	"	"	"
Copper	13.9	0.400	"	"	"	"	"	"
Lead	11.7	0.200	"	"	"	"	"	"
Nickel	9.20	0.400	"	"	"	"	"	"
Silver	0.0241	0.0200	"	"	"	"	"	"
Zinc	35.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	9.07	0.0500	"	"	"	"	"	"	
Sodium	9.33	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.500	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-5 (17.0')
2408239-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.3	%	1	BHH0625	08/22/24	08/22/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.146	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.71		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-5 (20.0')
2408239-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/26/24	EPA 8260B	
Toluene	0.0053	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0060	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.10	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.055	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.035	0.0050	"	"	"	"	"	"	
Naphthalene	0.0050	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.3	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0466	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0476	119 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0435	109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.65	77.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-5 (20.0')
2408239-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	53.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-5 (20.0')
2408239-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.32	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	43.2	0.400	"	"	"	"	"	"	
Cadmium	0.339	0.200	"	"	"	"	"	"	
Copper	11.2	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	15.7	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	90.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4.37	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	8.99	0.0500	"	"	"	"	"	"	
Sodium	8.71	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.547	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-5 (20.0')
2408239-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.8		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.158	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-6 (16.0')
2408239-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0451	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.8	94.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-6 (16.0')
2408239-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0103	30.8 %	40-150		"	"	"	"	S-02
Surrogate: Fluoranthene-d10	0.0154	46.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-6 (16.0')
2408239-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.46	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	36.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.41	0.400	"	"	"	"	"	"	
Lead	3.48	0.200	"	"	"	"	"	"	
Nickel	5.44	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	16.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.8	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	11.4	0.0500	"	"	"	"	"	"	
Sodium	12.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.561	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-6 (16.0')
2408239-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.352	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-6 (20.0')
2408239-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.41	59.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-6 (20.0')
2408239-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0138	41.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0135	40.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-6 (20.0')
2408239-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.99	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	20.4	0.400	"	"	"	"	"	"
Cadmium	0.257	0.200	"	"	"	"	"	"
Copper	11.5	0.400	"	"	"	"	"	"
Lead	17.5	0.200	"	"	"	"	"	"
Nickel	8.55	0.400	"	"	"	"	"	"
Silver	0.0229	0.0200	"	"	"	"	"	"
Zinc	49.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.1	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	10.7	0.0500	"	"	"	"	"	"	
Sodium	23.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.10	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-6 (20.0')
2408239-16 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.9	%	1	BHH0625	08/22/24	08/22/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.316	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-7 (16.0')
2408239-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0452	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.90	79.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-7 (16.0')
2408239-17 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0248	74.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-7 (16.0')
2408239-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.32	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	34.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.56	0.400	"	"	"	"	"	"	
Lead	2.77	0.200	"	"	"	"	"	"	
Nickel	2.50	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.3	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	27.4	0.0500	"	"	"	"	"	"	
Sodium	47.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.24	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-7 (16.0')
2408239-17 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.241	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.87		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-7 (19.0')
2408239-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.31	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.23	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0065	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.093	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0074	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.1	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.92	79.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-7 (19.0')
2408239-18 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-7 (19.0')
2408239-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.45	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	49.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.74	0.400	"	"	"	"	"	"	
Lead	2.93	0.200	"	"	"	"	"	"	
Nickel	3.21	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	4.41	0.0500	"	"	"	"	"	"	
Sodium	62.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.19	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-7 (19.0')
2408239-18 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.466	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-8 (15.0')
2408239-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0453	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.6	93.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-8 (15.0')
2408239-19 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0221	66.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0251	75.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-8 (15.0')
2408239-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.33	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	41.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.61	0.400	"	"	"	"	"	"	
Lead	2.82	0.200	"	"	"	"	"	"	
Nickel	3.24	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	28.2	0.0500	"	"	"	"	"	"	
Sodium	85.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.09	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-8 (15.0')
2408239-19 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.8		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.443	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.98		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-8 (19.0')
2408239-20 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.019	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0462	116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.82	70.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-8 (19.0')
2408239-20 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0179	53.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-8 (19.0')
2408239-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.38	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	30.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	12.3	0.400	"	"	"	"	"	"	
Lead	10.6	0.200	"	"	"	"	"	"	
Nickel	6.21	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	28.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.22	0.0500	"	"	"	"	"	"	
Sodium	9.35	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.527	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-8 (19.0')
2408239-20 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.9		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-9 (16.0')
2408239-21 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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	0.0059	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.84	78.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-9 (16.0')
2408239-21 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-9 (16.0')
2408239-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.78	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	29.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.74	0.400	"	"	"	"	"	"	
Lead	7.72	0.200	"	"	"	"	"	"	
Nickel	4.52	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	22.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.2	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.92	0.0500	"	"	"	"	"	"	
Sodium	21.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.09	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-9 (16.0')
2408239-21 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.256	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-9 (18.0')
2408239-22 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.20		mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	R-05
Toluene	0.87	0.50		"	"	"	"	"	"	
Ethylbenzene	1.2	0.50		"	"	"	"	"	"	
Xylenes (total)	28	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	15	0.50		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	9.6	0.50		"	"	"	"	"	"	
Naphthalene	0.59	0.38		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	790	50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.00	%		50-150		"	"	08/24/24	"	S-04
Surrogate: Toluene-d8	0.325	812 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.212	529 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	610	50		mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.7	93.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-9 (18.0')
2408239-22 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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	0.0392	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0889	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0160	48.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

SB-9 (18.0')
2408239-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	6.15	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	77.9	0.400	"	"	"	"	"	"
Cadmium	0.543	0.200	"	"	"	"	"	"
Copper	20.6	0.400	"	"	"	"	"	"
Lead	18.1	0.200	"	"	"	"	"	"
Nickel	21.1	0.400	"	"	"	"	"	"
Silver	0.0425	0.0200	"	"	"	"	"	"
Zinc	126	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.7	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.81	0.0500	"	"	"	"	"	"	
Sodium	15.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.890	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

SB-9 (18.0')
2408239-22 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.3	%	1	BHH0625	08/22/24	08/22/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.175	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**SB-10 (16.0')
2408239-23 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0655	08/22/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0385	96.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0659	08/22/24	08/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.1	81.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**SB-10 (16.0')
2408239-23 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0687	08/23/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0181	54.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**SB-10 (16.0')
2408239-23 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.06	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	28.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.22	0.400	"	"	"	"	"	"	
Lead	2.36	0.200	"	"	"	"	"	"	
Nickel	2.50	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.97	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0665	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.9	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	8.71	0.0500	"	"	"	"	"	"	
Sodium	3.34	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.164	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

**SB-10 (16.0')
 2408239-23 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.258	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**SB-10 (20.0')
2408239-24 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0655	08/22/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0659	08/22/24	08/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.64	69.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**SB-10 (20.0')
2408239-24 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0687	08/23/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0154	46.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0152	45.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

**SB-10 (20.0')
2408239-24 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.58	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	27.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	16.2	0.400	"	"	"	"	"	"
Lead	15.3	0.200	"	"	"	"	"	"
Nickel	10.1	0.400	"	"	"	"	"	"
Silver	0.0409	0.0200	"	"	"	"	"	"
Zinc	49.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0665	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.12	0.0500	"	"	"	"	"	"	
Sodium	15.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.913	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

**SB-10 (20.0')
 2408239-24 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.177	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

MW-1
2408239-25 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	7000	100	ug/l	100	BHH0712	08/23/24	08/26/24	EPA 8260B	
Toluene	22000	100	"	"	"	"	"	"	
Ethylbenzene	1300	100	"	"	"	"	"	"	
Xylenes (total)	16000	200	"	"	"	"	"	"	
Naphthalene	42	1.0	"	1	"	"	08/24/24	"	
1,2,4-Trimethylbenzene	1400	100	"	100	"	"	08/26/24	"	
1,3,5-Trimethylbenzene	200	1.0	"	1	"	"	08/24/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.4	92.6 %	23-173		"	"	08/26/24	"	
<i>Surrogate: Toluene-d8</i>	13.2	99.0 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	13.2	99.2 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	7.58	0.0600	mg/L	50	BHH0560	08/21/24	08/27/24	EPA 300.0	
Sulfate	4.38	0.300	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	722	10.0	mg/L	1	BHH0804	08/27/24	08/27/24	SM2540C	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHH0654 - EPA 5030 Soil MS

Blank (BHH0654-BLK1)

Prepared: 08/22/24 Analyzed: 08/23/24

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	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	50-150			

LCS (BHH0654-BS1)

Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	0.104	0.0020	mg/kg	0.100		104	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130			
m,p-Xylene	0.216	0.010	"	0.200		108	70-130			
o-Xylene	0.106	0.0050	"	0.100		106	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100		106	70-130			
Naphthalene	0.0998	0.0038	"	0.100		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

Matrix Spike (BHH0654-MS1)

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130			
Toluene	0.101	0.0050	"	0.100	ND	101	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.206	0.010	"	0.200	ND	103	70-130			
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
Naphthalene	0.103	0.0038	"	0.100	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0425		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHH0654 - EPA 5030 Soil MS

Matrix Spike Dup (BHH0654-MSD1)

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	0.0998	0.0020	mg/kg	0.100	ND	99.8	70-130	1.31	30	
Toluene	0.103	0.0050	"	0.100	ND	103	70-130	1.12	30	
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	2.14	30	
m,p-Xylene	0.215	0.010	"	0.200	ND	108	70-130	4.35	30	
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	3.08	30	
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	2.11	30	
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	3.98	30	
Naphthalene	0.0964	0.0038	"	0.100	ND	96.4	70-130	6.77	30	
Surrogate: 1,2-Dichloroethane-d4	0.0418		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

Batch BHH0655 - EPA 5030 Soil MS

Blank (BHH0655-BLK1)

Prepared & Analyzed: 08/22/24

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	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

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

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

Batch BHH0655 - EPA 5030 Soil MS

LCS (BHH0655-BS1)

Prepared & Analyzed: 08/22/24

Benzene	0.120	0.0020	mg/kg	0.100		120	70-130			
Toluene	0.111	0.0050	"	0.100		111	70-130			
Ethylbenzene	0.117	0.0050	"	0.100		117	70-130			
m,p-Xylene	0.227	0.010	"	0.200		114	70-130			
o-Xylene	0.118	0.0050	"	0.100		118	70-130			
1,2,4-Trimethylbenzene	0.117	0.0050	"	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.118	0.0050	"	0.100		118	70-130			
Naphthalene	0.113	0.0038	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0400		96.3	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

Matrix Spike (BHH0655-MS1)

Source: 2408234-21

Prepared & Analyzed: 08/22/24

Benzene	0.110	0.0020	mg/kg	0.100	ND	110	70-130			
Toluene	0.102	0.0050	"	0.100	ND	102	70-130			
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
m,p-Xylene	0.199	0.010	"	0.200	ND	99.4	70-130			
o-Xylene	0.0917	0.0050	"	0.100	ND	91.7	70-130			
1,2,4-Trimethylbenzene	0.0886	0.0050	"	0.100	ND	88.6	70-130			
1,3,5-Trimethylbenzene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
Naphthalene	0.0860	0.0038	"	0.100	ND	86.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0400		99.2	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

Matrix Spike Dup (BHH0655-MSD1)

Source: 2408234-21

Prepared & Analyzed: 08/22/24

Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130	2.21	30	
Toluene	0.0988	0.0050	"	0.100	ND	98.8	70-130	3.08	30	
Ethylbenzene	0.0979	0.0050	"	0.100	ND	97.9	70-130	3.67	30	
m,p-Xylene	0.190	0.010	"	0.200	ND	95.0	70-130	4.52	30	
o-Xylene	0.0876	0.0050	"	0.100	ND	87.6	70-130	4.62	30	
1,2,4-Trimethylbenzene	0.0825	0.0050	"	0.100	ND	82.5	70-130	7.05	30	
1,3,5-Trimethylbenzene	0.0860	0.0050	"	0.100	ND	86.0	70-130	5.00	30	
Naphthalene	0.0760	0.0038	"	0.100	ND	76.0	70-130	12.4	30	
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

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

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

Batch BHH0712 - EPA 5030 Water MS

Blank (BHH0712-BLK1)

Prepared: 08/23/24 Analyzed: 08/24/24

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.7		"	13.3		95.4	23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		98.9	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.9		"	13.3		96.7	21-167			

LCS (BHH0712-BS1)

Prepared: 08/23/24 Analyzed: 08/24/24

Benzene	40.1	1.0	ug/l	33.3	120	51-132				
Toluene	38.3	1.0	"	33.3	115	51-138				
Ethylbenzene	45.4	1.0	"	33.3	136	58-146				
m,p-Xylene	77.6	2.0	"	66.7	116	57-144				
o-Xylene	37.1	1.0	"	33.3	111	53-146				
Naphthalene	34.7	1.0	"	33.3	104	70-130				
1,2,4-Trimethylbenzene	37.4	1.0	"	33.3	112	70-130				
1,3,5-Trimethylbenzene	38.3	1.0	"	33.3	115	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.1		"	13.3		98.1	23-173			
<i>Surrogate: Toluene-d8</i>	13.3		"	13.3		99.7	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.2		"	13.3		99.3	21-167			

LCS Dup (BHH0712-BSD1)

Prepared: 08/23/24 Analyzed: 08/24/24

Benzene	40.6	1.0	ug/l	33.3	122	51-132	1.29	20		
Toluene	39.0	1.0	"	33.3	117	51-138	1.71	20		
Ethylbenzene	46.2	1.0	"	33.3	139	58-146	1.81	20		
m,p-Xylene	79.2	2.0	"	66.7	119	57-144	2.16	20		
o-Xylene	37.6	1.0	"	33.3	113	53-146	1.31	20		
Naphthalene	35.7	1.0	"	33.3	107	70-130	2.67	20		
1,2,4-Trimethylbenzene	38.9	1.0	"	33.3	117	70-130	3.96	20		
1,3,5-Trimethylbenzene	39.7	1.0	"	33.3	119	70-130	3.41	20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.2		"	13.3		98.7	23-173			
<i>Surrogate: Toluene-d8</i>	13.4		"	13.3		100	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.1		"	13.3		98.2	21-167			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHH0658 - EPA 3550A

Blank (BHH0658-BLK1)

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5		108		30-150			

LCS (BHH0658-BS1)

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	447	50	mg/kg	500		89.4		70-130			
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.7		30-150			

Matrix Spike (BHH0658-MS1)

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	449	50	mg/kg	500	38.5	82.0		70-130			
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.5		30-150			

Matrix Spike Dup (BHH0658-MSD1)

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	455	50	mg/kg	500	38.5	83.3		70-130	1.37	20	
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102		30-150			

Batch BHH0659 - EPA 3550A

Blank (BHH0659-BLK1)

Prepared: 08/22/24 Analyzed: 08/25/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.7		30-150			

LCS (BHH0659-BS1)

Prepared: 08/22/24 Analyzed: 08/25/24

C10-C28 (DRO)	571	50	mg/kg	500		114		70-130			
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.5		103		30-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHH0659 - EPA 3550A

Matrix Spike (BHH0659-MS1)

Source: 2408234-21

Prepared: 08/22/24 Analyzed: 08/25/24

C10-C28 (DRO)	563	50	mg/kg	500	ND	113	70-130			
Surrogate: o-Terphenyl	14.8		"	12.5		118	30-150			

Matrix Spike Dup (BHH0659-MSD1)

Source: 2408234-21

Prepared: 08/22/24 Analyzed: 08/25/24

C10-C28 (DRO)	531	50	mg/kg	500	ND	106	70-130	5.85	20	
Surrogate: o-Terphenyl	14.6		"	12.5		117	30-150			

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PO Box 1289
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHH0685 - EPA 5030 Soil MS

Blank (BHH0685-BLK1)

Prepared & Analyzed: 08/23/24

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0173</i>		<i>"</i>	<i>0.0333</i>		<i>51.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0304</i>		<i>"</i>	<i>0.0333</i>		<i>91.2</i>	<i>40-150</i>			

LCS (BHH0685-BS1)

Prepared & Analyzed: 08/23/24

Acenaphthene	0.0139	0.00500	mg/kg	0.0333		41.8	31-137			
Anthracene	0.0140	0.00500	"	0.0333		42.0	30-120			
Benzo (a) anthracene	0.0155	0.00500	"	0.0333		46.5	30-120			
Benzo (a) pyrene	0.0141	0.00500	"	0.0333		42.3	30-120			
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333		41.8	30-120			
Benzo (k) fluoranthene	0.0138	0.00500	"	0.0333		41.4	30-120			
Chrysene	0.0151	0.00500	"	0.0333		45.3	30-120			
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333		40.1	30-120			
Fluoranthene	0.0138	0.00500	"	0.0333		41.4	30-120			
Fluorene	0.0153	0.00500	"	0.0333		45.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333		48.0	30-120			
Pyrene	0.0177	0.00500	"	0.0333		53.0	35-142			
1-Methylnaphthalene	0.0136	0.00500	"	0.0333		40.9	35-142			
2-Methylnaphthalene	0.0145	0.00500	"	0.0333		43.4	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0136</i>		<i>"</i>	<i>0.0333</i>		<i>40.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0143</i>		<i>"</i>	<i>0.0333</i>		<i>42.9</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHH0685 - EPA 5030 Soil MS

Matrix Spike (BHH0685-MS1)	Source: 2408239-03			Prepared & Analyzed: 08/23/24						
Acenaphthene	0.0227	0.00500	mg/kg	0.0333	ND	68.2	31-137			
Anthracene	0.0266	0.00500	"	0.0333	ND	79.7	30-120			
Benzo (a) anthracene	0.0284	0.00500	"	0.0333	ND	85.3	30-120			
Benzo (a) pyrene	0.0207	0.00500	"	0.0333	ND	62.0	30-120			
Benzo (b) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	30-120			
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.7	30-120			
Chrysene	0.0273	0.00500	"	0.0333	ND	82.0	30-120			
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	ND	54.0	30-120			
Fluoranthene	0.0267	0.00500	"	0.0333	ND	80.2	30-120			
Fluorene	0.0249	0.00500	"	0.0333	ND	74.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.6	30-120			
Pyrene	0.0314	0.00500	"	0.0333	ND	94.1	35-142			
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.8	15-130			
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.4	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0237</i>		<i>"</i>	<i>0.0333</i>		<i>71.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0272</i>		<i>"</i>	<i>0.0333</i>		<i>81.7</i>	<i>40-150</i>			

Matrix Spike Dup (BHH0685-MSD1)	Source: 2408239-03			Prepared & Analyzed: 08/23/24						
Acenaphthene	0.0140	0.00500	mg/kg	0.0333	ND	42.0	31-137	47.7	30	QR-02
Anthracene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	54.3	30	QR-02
Benzo (a) anthracene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	51.3	30	QR-02
Benzo (a) pyrene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	33.8	30	QR-02
Benzo (b) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.7	30-120	39.1	30	QR-02
Benzo (k) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	37.5	30	QR-02
Chrysene	0.0161	0.00500	"	0.0333	ND	48.3	30-120	51.8	30	QR-02
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	19.8	30	
Fluoranthene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	58.2	30	QR-02
Fluorene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	51.1	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	4.72	30	
Pyrene	0.0189	0.00500	"	0.0333	ND	56.8	35-142	49.4	30	QR-02
1-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.3	15-130	44.8	50	
2-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	41.9	15-130	48.0	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0153</i>		<i>"</i>	<i>0.0333</i>		<i>45.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0153</i>		<i>"</i>	<i>0.0333</i>		<i>45.8</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHH0687 - EPA 5030 Soil MS

Blank (BHH0687-BLK1)

Prepared & Analyzed: 08/23/24

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	0.0202		"	0.0333		60.5	40-150			
Surrogate: Fluoranthene-d10	0.0274		"	0.0333		82.2	40-150			

LCS (BHH0687-BS1)

Prepared & Analyzed: 08/23/24

Acenaphthene	0.0246	0.00500	mg/kg	0.0333		73.8	31-137			
Anthracene	0.0240	0.00500	"	0.0333		72.1	30-120			
Benzo (a) anthracene	0.0252	0.00500	"	0.0333		75.5	30-120			
Benzo (a) pyrene	0.0188	0.00500	"	0.0333		56.5	30-120			
Benzo (b) fluoranthene	0.0179	0.00500	"	0.0333		53.8	30-120			
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333		51.9	30-120			
Chrysene	0.0247	0.00500	"	0.0333		74.1	30-120			
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333		66.0	30-120			
Fluoranthene	0.0236	0.00500	"	0.0333		70.7	30-120			
Fluorene	0.0245	0.00500	"	0.0333		73.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0159	0.00500	"	0.0333		47.6	30-120			
Pyrene	0.0285	0.00500	"	0.0333		85.5	35-142			
1-Methylnaphthalene	0.0213	0.00500	"	0.0333		63.9	35-142			
2-Methylnaphthalene	0.0209	0.00500	"	0.0333		62.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333		64.8	40-150			
Surrogate: Fluoranthene-d10	0.0239		"	0.0333		71.6	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHH0687 - EPA 5030 Soil MS

Matrix Spike (BHH0687-MS1)	Source: 2408239-23			Prepared & Analyzed: 08/23/24								
Acenaphthene	0.0181	0.00500	mg/kg	0.0333	ND	54.4	31-137					
Anthracene	0.0179	0.00500	"	0.0333	ND	53.8	30-120					
Benzo (a) anthracene	0.0185	0.00500	"	0.0333	ND	55.5	30-120					
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.6	30-120					
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120					
Benzo (k) fluoranthene	0.0153	0.00500	"	0.0333	ND	45.8	30-120					
Chrysene	0.0184	0.00500	"	0.0333	ND	55.2	30-120					
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	44.9	30-120					
Fluoranthene	0.0174	0.00500	"	0.0333	ND	52.2	30-120					
Fluorene	0.0183	0.00500	"	0.0333	ND	54.9	30-120					
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	ND	49.8	30-120					
Pyrene	0.0220	0.00500	"	0.0333	ND	65.9	35-142					
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	51.1	15-130					
2-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.1	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0162</i>		<i>"</i>	<i>0.0333</i>		<i>48.6</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.4</i>	<i>40-150</i>					

Matrix Spike Dup (BHH0687-MSD1)	Source: 2408239-23			Prepared & Analyzed: 08/23/24								
Acenaphthene	0.0169	0.00500	mg/kg	0.0333	ND	50.7	31-137	7.00	30			
Anthracene	0.0168	0.00500	"	0.0333	ND	50.3	30-120	6.75	30			
Benzo (a) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	6.64	30			
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	31.8	30			QR-02
Benzo (b) fluoranthene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	7.18	30			
Benzo (k) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.7	30-120	7.14	30			
Chrysene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	7.47	30			
Dibenz (a,h) anthracene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	40.9	30			QR-02
Fluoranthene	0.0162	0.00500	"	0.0333	ND	48.7	30-120	6.96	30			
Fluorene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	7.17	30			
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	8.42	30			
Pyrene	0.0198	0.00500	"	0.0333	ND	59.5	35-142	10.2	30			
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.7	15-130	8.97	50			
2-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.7	15-130	7.24	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0157</i>		<i>"</i>	<i>0.0333</i>		<i>47.0</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0162</i>		<i>"</i>	<i>0.0333</i>		<i>48.6</i>	<i>40-150</i>					

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

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

Summit Scientific

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

Batch BHH0697 - EPA 3050B

Blank (BHH0697-BLK1)				Prepared: 08/23/24 Analyzed: 08/26/24						
Boron	ND	2.00	mg/L							
LCS (BHH0697-BS1)				Prepared: 08/23/24 Analyzed: 08/26/24						
Boron	5.08	2.00	mg/L	5.00	102	80-120				
Duplicate (BHH0697-DUP1)				Source: 2408234-14 Prepared: 08/23/24 Analyzed: 08/26/24						
Boron	ND	2.00	mg/L		0.00835			200	20	QR-01
Matrix Spike (BHH0697-MS1)				Source: 2408234-14 Prepared: 08/23/24 Analyzed: 08/26/24						
Boron	4.71	2.00	mg/L	5.00	0.00835	93.9	75-125			
Matrix Spike Dup (BHH0697-MSD1)				Source: 2408234-14 Prepared: 08/23/24 Analyzed: 08/26/24						
Boron	4.91	2.00	mg/L	5.00	0.00835	97.9	75-125	4.16	25	

Batch BHH0698 - EPA 3050B

Blank (BHH0698-BLK1)				Prepared: 08/23/24 Analyzed: 08/27/24						
Boron	ND	2.00	mg/L							
LCS (BHH0698-BS1)				Prepared: 08/23/24 Analyzed: 08/27/24						
Boron	5.03	2.00	mg/L	5.00	101	80-120				
Duplicate (BHH0698-DUP1)				Source: 2408239-12 Prepared: 08/23/24 Analyzed: 08/27/24						
Boron	0.117	2.00	mg/L		0.134			13.8	20	
Matrix Spike (BHH0698-MS1)				Source: 2408239-12 Prepared: 08/23/24 Analyzed: 08/27/24						
Boron	4.69	2.00	mg/L	4.98	0.134	91.5	75-125			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

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

Summit Scientific

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

Batch BHH0698 - EPA 3050B

Matrix Spike Dup (BHH0698-MSD1)

Source: 2408239-12

Prepared: 08/23/24 Analyzed: 08/27/24

Boron	4.91	2.00	mg/L	4.98	0.134	95.9	75-125	4.54	25	
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHH0642 - EPA 3050B

Blank (BHH0642-BLK1)

Prepared: 08/22/24 Analyzed: 08/27/24

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 (BHH0642-BS1)

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	36.9	0.200	mg/kg wet	36.5	101	80-120					
Barium	37.8	0.400	"	36.5	104	80-120					
Cadmium	1.74	0.200	"	1.82	95.2	80-120					
Copper	36.4	0.400	"	36.5	99.9	80-120					
Lead	18.2	0.200	"	18.2	100	80-120					
Nickel	36.7	0.400	"	36.5	101	80-120					
Silver	1.98	0.0200	"	1.82	108	80-120					
Zinc	35.9	0.400	"	36.5	98.4	80-120					
Selenium	3.63	0.260	"	3.65	99.4	80-120					

Duplicate (BHH0642-DUP1)

Source: 2408234-20

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	3.24	0.200	mg/kg dry	3.39	4.72	20					
Barium	401	0.400	"	610	41.2	20					QR-02
Cadmium	0.153	0.200	"	0.133	14.6	20					
Copper	3.90	0.400	"	4.05	3.65	20					
Lead	8.98	0.200	"	9.09	1.21	20					
Nickel	4.36	0.400	"	4.53	3.91	20					
Silver	0.0204	0.0200	"	0.0165	21.1	20					QR-01
Zinc	22.6	0.400	"	29.0	24.7	20					QR-02
Selenium	ND	0.260	"	ND		20					

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BHH0642 - EPA 3050B

Matrix Spike (BHH0642-MS1)

Source: 2408234-20

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	54.7	0.200	mg/kg dry	51.3	3.39	100	75-125			
Barium	483	0.400	"	51.3	610	NR	75-125			QM-05
Cadmium	2.63	0.200	"	2.56	0.133	97.4	75-125			
Copper	52.9	0.400	"	51.3	4.05	95.3	75-125			
Lead	33.6	0.200	"	25.6	9.09	95.6	75-125			
Nickel	54.4	0.400	"	51.3	4.53	97.2	75-125			
Silver	2.40	0.0200	"	2.56	0.0165	93.0	75-125			
Zinc	73.3	0.400	"	51.3	29.0	86.5	75-125			
Selenium	4.23	0.260	"	5.13	ND	82.6	75-125			

Matrix Spike Dup (BHH0642-MSD1)

Source: 2408234-20

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	50.0	0.200	mg/kg dry	47.1	3.39	98.9	75-125	9.01	25	
Barium	506	0.400	"	47.1	610	NR	75-125	4.60	25	QM-05
Cadmium	2.42	0.200	"	2.36	0.133	97.3	75-125	8.06	25	
Copper	48.3	0.400	"	47.1	4.05	94.0	75-125	9.05	25	
Lead	31.3	0.200	"	23.6	9.09	94.2	75-125	7.14	25	
Nickel	49.5	0.400	"	47.1	4.53	95.5	75-125	9.28	25	
Silver	2.14	0.0200	"	2.36	0.0165	89.9	75-125	11.7	25	
Zinc	68.9	0.400	"	47.1	29.0	84.8	75-125	6.17	25	
Selenium	3.82	0.260	"	4.71	ND	81.1	75-125	10.3	25	

Batch BHH0643 - EPA 3050B

Blank (BHH0643-BLK1)

Prepared: 08/22/24 Analyzed: 08/27/24

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	"							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHH0643 - EPA 3050B

LCS (BHH0643-BS1)

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	37.2	0.200	mg/kg wet	39.1		95.1	80-120			
Barium	38.0	0.400	"	39.1		97.4	80-120			
Cadmium	1.78	0.200	"	1.95		91.0	80-120			
Copper	36.6	0.400	"	39.1		93.7	80-120			
Lead	18.5	0.200	"	19.5		95.0	80-120			
Nickel	36.8	0.400	"	39.1		94.3	80-120			
Silver	1.98	0.0200	"	1.95		102	80-120			
Zinc	35.9	0.400	"	39.1		92.0	80-120			
Selenium	3.72	0.260	"	3.91		95.3	80-120			

Duplicate (BHH0643-DUP1)

Source: 2408239-17

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	1.31	0.200	mg/kg dry		1.32			1.02	20	
Barium	39.9	0.400	"		34.5			14.6	20	
Cadmium	0.0471	0.200	"		0.0393			18.1	20	
Copper	2.53	0.400	"		2.56			1.33	20	
Lead	2.89	0.200	"		2.77			4.11	20	
Nickel	2.64	0.400	"		2.50			5.49	20	
Silver	0.00828	0.0200	"		0.00701			16.6	20	
Zinc	11.5	0.400	"		11.0			4.33	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BHH0643-MS1)

Source: 2408239-17

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	41.4	0.200	mg/kg dry	43.3	1.32	92.7	75-125			
Barium	77.3	0.400	"	43.3	34.5	99.0	75-125			
Cadmium	2.04	0.200	"	2.16	0.0393	92.6	75-125			
Copper	41.2	0.400	"	43.3	2.56	89.4	75-125			
Lead	22.6	0.200	"	21.6	2.77	91.6	75-125			
Nickel	42.0	0.400	"	43.3	2.50	91.3	75-125			
Silver	1.95	0.0200	"	2.16	0.00701	90.0	75-125			
Zinc	49.8	0.400	"	43.3	11.0	89.6	75-125			
Selenium	3.69	0.260	"	4.33	ND	85.3	75-125			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHH0643 - EPA 3050B

Matrix Spike Dup (BHH0643-MSD1)	Source: 2408239-17			Prepared: 08/22/24 Analyzed: 08/27/24							
Arsenic	43.2	0.200	mg/kg dry	45.3	1.32	92.5	75-125	4.26	25		
Barium	80.7	0.400	"	45.3	34.5	102	75-125	4.31	25		
Cadmium	2.19	0.200	"	2.26	0.0393	94.9	75-125	6.89	25		
Copper	42.9	0.400	"	45.3	2.56	89.1	75-125	4.00	25		
Lead	24.5	0.200	"	22.6	2.77	95.8	75-125	7.96	25		
Nickel	43.7	0.400	"	45.3	2.50	91.1	75-125	4.07	25		
Silver	2.07	0.0200	"	2.26	0.00701	91.3	75-125	5.93	25		
Zinc	52.1	0.400	"	45.3	11.0	90.8	75-125	4.56	25		
Selenium	3.78	0.260	"	4.53	ND	83.5	75-125	2.38	25		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHH0664 - 3060A Mod

Blank (BHH0664-BLK1)											
Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BHH0664-BS1)											
Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	26.2	0.30	mg/kg wet	25.0	105	80-120					
Duplicate (BHH0664-DUP1)											
Source: 2408239-03 Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BHH0664-MS1)											
Source: 2408239-03 Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	27.8	0.30	mg/kg dry	26.8	ND	104	75-125				
Matrix Spike Dup (BHH0664-MSD1)											
Source: 2408239-03 Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	25.9	0.30	mg/kg dry	26.8	ND	96.6	75-125	6.99		20	

Batch BHH0665 - 3060A Mod

Blank (BHH0665-BLK1)											
Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BHH0665-BS1)											
Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	23.8	0.30	mg/kg wet	25.0	95.2	80-120					
Duplicate (BHH0665-DUP1)											
Source: 2408233-01 Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BHH0665-MS1)											
Source: 2408233-01 Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	26.0	0.30	mg/kg dry	26.2	ND	99.2	75-125				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BHH0665 - 3060A Mod

Matrix Spike Dup (BHH0665-MSD1)

Source: 2408233-01

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent	27.2	0.30	mg/kg dry	26.2	ND	104	75-125	4.72	20	
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Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

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

Summit Scientific

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

Batch BHH0730 - General Preparation

Blank (BHH0730-BLK1)

Prepared: 08/23/24 Analyzed: 08/28/24

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

LCS (BHH0730-BS1)

Prepared: 08/23/24 Analyzed: 08/28/24

Calcium	4.59	0.0500	mg/L wet	5.00	91.7	70-130
Magnesium	4.72	0.0500	"	5.00	94.4	70-130
Sodium	4.89	0.0500	"	5.00	97.9	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BHH0560 - General Preparation

Blank (BHH0560-BLK1)

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							

LCS (BHH0560-BS1)

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	2.91	0.0600	mg/L	3.00	97.1	90-110				
Sulfate	14.6	0.300	"	15.0	97.6	90-110				

Duplicate (BHH0560-DUP1)

Source: 2408216-21

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	178	0.0600	mg/L		179		0.297	20		
Sulfate	2090	0.300	"		2090		0.184	20		

Matrix Spike (BHH0560-MS1)

Source: 2408216-21

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	324	0.0600	mg/L	600	179	24.2	80-120			QM-05
Sulfate	2900	0.300	"	3000	2090	27.0	80-120			QM-05

Summit Scientific

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Fremont Environmental
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

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

Summit Scientific

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

Batch BHH0625 - General Preparation

Duplicate (BHH0625-DUP1)

Source: 2408235-01

Prepared & Analyzed: 08/22/24

% Solids	82.7		%		82.4			0.410		20	
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

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

Batch BHH0804 - General Preparation

Blank (BHH0804-BLK1)

Prepared & Analyzed: 08/27/24

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BHH0804-DUP1)

Source: 2408239-25

Prepared & Analyzed: 08/27/24

Total Dissolved Solids 720 10.0 mg/L 722 0.347 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

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

Summit Scientific

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

Batch BHH0732 - General Preparation

Blank (BHH0732-BLK1)

Prepared: 08/23/24 Analyzed: 08/27/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHH0732-BS1)

Prepared: 08/23/24 Analyzed: 08/27/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHH0732-DUP1)

Source: 2408239-03

Prepared: 08/23/24 Analyzed: 08/27/24

Specific Conductance (EC) 0.201 0.0100 mmhos/cm 0.202 0.794 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/03/24 08:26

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

Summit Scientific

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

Batch BHH0624 - General Preparation

LCS (BHH0624-BS1)

Prepared & Analyzed: 08/22/24

pH 9.22 pH Units 9.18 100 95-105

Duplicate (BHH0624-DUP1)

Source: 2408228-01

Prepared & Analyzed: 08/22/24

pH 8.57 pH Units 8.59 0.233 20

Batch BHH0731 - General Preparation

LCS (BHH0731-BS1)

Prepared: 08/23/24 Analyzed: 08/27/24

pH 9.07 pH Units 9.18 98.8 95-105

Duplicate (BHH0731-DUP1)

Source: 2408239-03

Prepared: 08/23/24 Analyzed: 08/27/24

pH 8.90 pH Units 9.06 1.78 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/03/24 08:26

Notes and Definitions

- S-04 A sample matrix effect prevented complete surrogate recovery.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- R-05 The reporting limit for this sample has been raised due to the presence of high levels of non-target analytes.
- 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 below the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

ATTACHMENTS

APPENDIX

SAMPLING METHODS AND PROCEDURES

Water Level Measurements

All groundwater level measurements will be obtained using an electric measuring device, which indicates when a probe is in contact with groundwater. Measurements will be obtained by lowering the device into the well until the water surface had been encountered, and by measuring the distance from the top of the inside riser pipe to the probe. All the measurements will be recorded to the nearest 0.01 ft. To minimize cross-contamination, the water level indicator will be decontaminated with isopropyl alcohol and distilled water between each well.

Monitoring Well Sampling

All monitoring wells were sampled from the “cleanest” to the “most contaminated” according to the protocols listed below.

Field Protocol

- Step 1 Measure water level in each well.
- Step 2 Purge each monitoring well by evacuating a minimum of three well bore volumes using a disposable polyethylene bailer.
- Step 3 Collect water samples using a disposable polyethylene bailer.
- Step 4 Cool samples to approximately 4°C for transportation.
- Step 5 Store water samples and transport to a specific laboratory, following all documentation and chain-of-custody procedures.

Upon completion of groundwater sampling, a chain-of-custody log will be completed. Chain-of-custody records include the following information: project, project number, shipped by, shipped to, suspected hazard, sampling point, location, field identification number, date collected, sample type, number of containers, analysis required, and sampler's signature.

The chain-of-custody records will be shipped with the samples to the laboratory. Upon arrival at the laboratory the samples will be checked in and signed by the appropriate laboratory personnel. Laboratory identification numbers will be noted on the chain-of-custody record. Upon completion of the laboratory analysis, the completed chain-of-custody record will be returned to the project manager.

Analytical Methods

The following list identifies the various chemical constituents and analytical methods which will be used for their quantification.

<u>Chemical Parameter</u>	<u>Method</u>
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	EPA Method – 8260B
1,2,4- and 1,3,5-Trimethylbenzene and Naphthalene	EPA Method – 8260B
Chloride and Sulfate Anions	EPA Method – 300.0
Total Dissolved Solids (TDS)	Standard Method 2540C