

FREMONT ENVIRONMENTAL INC.

February 28, 2023

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

Subject: **Excavation Report**
 WPF III T6N-R64W-S18 L01
 SWSW Sec 18, T6N, R64W
 Weld County, Colorado
 Fremont Project No. C023-007
 Facility # 483054, Remediation #25398

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Excavation Report for the WPF III T6N-R64W-S18 L01 facility in Weld County, Colorado. The enclosed report describes excavation actions to remediate impacted soil and groundwater at the site.

Please contact me at (970) 213-7488 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Chris Lattes
Consultant

Enclosure

EXCAVATION REPORT

NOBLE ENERGY INC.

WPF III T6N-R64W-S18 L01

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C023-007

FACILITY # 483054, REMEDIATION #25398

Prepared by:

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February 28, 2024

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EXCAVATION REPORT
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007
FACILITY # 483054, REMEDIATION #25398

1.0 INTRODUCTION

The purpose of this document is to present information collected during the excavation of impacted soil at the WPF III T6N-R64W-S18 L01 Tank Battery release location in Weld County, Colorado. Excavation of impacted soil was completed on September 12, 2023.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The WPF site is located approximately 4.2 miles south southwest of Galeton, Colorado in Weld County as shown in Figure 1. The site is located in an agricultural area approximately 0.13 miles north of the intersection of County Road 68 and County Road 49. The location is further described as the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 18, Township 6N, Range 64W.

2.2 Site History

The WPF III pad (WPF) services the WPF III A18-13A Wellhead which was completed in 1987 to a vertical depth of 7,100 feet. A legacy release was identified on January 10, 2023, at the WPF facility separator during facility decommissioning. Excavation was undertaken following the identification of the legacy release to remove soil impacts that were observed.

3.0 FIELD ACTIVITIES

Initial remedial efforts consisted of the excavation of impacted soil at and adjacent to the release area. The subsurface generally consisted of six inches of road base within the former facility footprint underlain by silty sand to clayey sand (SM/SC) that extended to a maximum depth of 12 feet below ground surface (bgs) within the excavation. Groundwater was encountered at approximately eight feet bgs within the excavation.

Excavation of the release area began on August 8, 2023 and was completed on September 12, 2023. Due to field constraints involving live utilities, including a live DCP gas line, the excavation was completed in two separate phases. Excavation of impacted soil above and around the DCP gas lines, between the excavations, and to the west was completed to the furthest extent possible without disturbing the live utilities. The phases included the excavation of impacted soil to the north and south of the east-west running DCP line path. The DCP gas line is depicted in the attached figures for reference. Forty-eight soil samples were collected at the WPF III location over the course of the multi-week excavation at varying depths and field screened using a photoionization detector (PID). Additionally, background soil samples were collected around the excavation at a depth of seven to 10 feet bgs and submitted for analysis of Table 915-1 metals and Soil Suitability for Reclamation constituents. The SBKG background soil samples was collected before the completion of the excavation(s) and the soil sample fell within the footprint of the excavation. Background soil samples that fell within the footprint of the excavation will not be considered in the determination of native soil conditions. Additional background data will be collected during the future installation of borings at the location.

The soil samples were analyzed by Summit Scientific Inc. in Golden, Colorado for benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene, trimethylbenzenes, total petroleum hydrocarbons (TPH) – gasoline range organics (TPH-GRO) by EPA Method 8260B, and TPH – diesel range organics (TPH-DRO) and TPH - residual range organics (TPH-ORO) by EPA Method 8015, polycyclic aromatic hydrocarbons (PAHs) by

EPA Method 8270D, pH by APHA/ASTM/EPA methods, Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction for calculated analysis of sodium absorption ratio (SAR), electrical conductivity (EC) by EPA Method 120.1, Saturated Paste Extraction, boron (hot water soluble) and Table 915-1 metals by EPA 6020B. The laboratory's reports and chain-of-custody documentation are included in Appendix B and summarized in Tables 1 to 4.

Soil samples collected from the west wall and the south wall of the north excavation were reported with organic compound exceedances for ECMC Table 915 Residential Soil Screening Levels (RSSLS) and Protection of Groundwater Soil Screening Levels (PGSSLs) due to field constraints. Similarly, soil samples collected from the north wall of the south excavation were reported with organic compound exceedances for ECMC Table 915-1 RSSLS and PGSSLs due to field constraints. Excavation confirmation soil samples also exceeded the ECMC Table 915-1 Soil Suitability for Reclamation standards for pH and SAR. Elevated levels of SAR were also reported for a couple of the collected background soil samples. Additionally, excavation confirmation soil samples were reported with ECMC Table 915-1 RSSL and PGSSL exceedances for metals including arsenic, barium, cadmium, and selenium. Background soil samples were reported with elevated concentrations of arsenic, barium, and cadmium. Additional background soil characterization is needed at the location.

Groundwater flowed into the bottom of the excavation at approximately eight feet bgs. Two groundwater grab samples were collected from the floor of the excavations (GW01 and GW02). The groundwater samples were submitted to Summit Scientific, Inc. for analyses including organic petroleum constituents BTEX, 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene, and naphthalene by EPA Method 8260B. Additionally, GW02 was analyzed for inorganic petroleum constituents' chloride and sulfate by EPA Method 300.0 and total dissolved solids (TDS) by Standard Method 2540C. The groundwater sample collected from the north excavation (GW01) exceeded the ECMC Table 915-1 standards

for benzene, however, the groundwater sample collected from the south excavation (GW02) did not. The groundwater chemistry is shown in Figure 11 and the analytical data are summarized in Tables 5 and 6. The laboratory's report and chain-of-custody documentation are presented in Appendix B.

Approximately 1,160 cubic yards of impacted soil were removed via conventional excavation by Tasman Geosciences Inc. during the excavation. The impacted soil was disposed of at the North Weld County Landfill in Ault, Colorado as non-hazardous waste. The excavation was backfilled using clean, imported fill. Pea gravel backfill was used in the saturated zone of the entire south excavation and most of the north excavation to facilitate additional remedial efforts of soil and groundwater.

4.0 DISCUSSION

As demonstrated by the soil sampling, much of the impacted soil was removed from the release area at the WPF location via excavation. As noted previously, field constraints limited the removal of impacted soil in the vicinity of live DCP gas lines. This is confirmed by the analyses of soil samples collected from the excavation which were reported below the ECMC Table 915-1 PGSSLs for petroleum constituents.

Approximately 1,160 cubic yards of impacted soil were removed and transported to the landfill. The soil data are illustrated and summarized in the attached tables and figures.

Groundwater impacts remain at the WPF location, and the magnitude and extent of these impacts require additional delineation. A minimum of five groundwater monitoring wells are proposed for installation at the site. Groundwater will be sampled quarterly and analyzed for ECMC Table 915-1 organic and inorganic constituents.

Additional characterization of native soils adjacent to the WPF location will be conducted to determine if elevated concentrations/values of pH, SAR, arsenic, barium and selenium

are present within the excavation are attributable to native soil conditions. A minimum of four additional background soil borings are proposed to be advanced to a maximum depth of 12 feet bgs and sampled for pH, SAR, arsenic, barium, and selenium at depths between nine and 12 feet bgs.

5.0 REMARKS

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

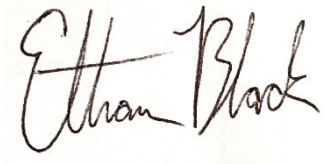
This report was prepared by **FREMONT ENVIRONMENTAL INC.**



Chris Lattes
Consultant

2/28/24
Date_____

Reviewed by:



Ethan D. Black, P.G.
Geologist

3/18/24
Date_____

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
B01@10'	08/09/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
E01@9'	08/09/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
E02@10'	08/10/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
N02@10'	08/10/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
STOCK01	08/10/2023	COMP	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
B02@12'	08/11/2023	12'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
N03@10'	08/11/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
N04@10'	08/11/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
STOCK02	08/11/2023	COMP	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W01@10'	08/11/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
WCS01	08/11/2023	5'	0.0086	<0.0050	0.17	3.5	4.3	0.25	0.029	500	<50	<50
WCS03	08/11/2023	10'	0.055	<0.0050	0.55	3.8	1.4	0.51	0.081	61	150	<50
B03@12'	08/15/2023	12'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B04@11'	08/18/2023	11'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S01@9'	08/17/2023	9'	0.038	<0.0050	0.0068	0.041	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S03@10'	08/18/2023	10'	2	<0.0050	2.8	18	6.6	2.9	0.14	390	140	<50
W02@9'	08/18/2023	9'	<0.0020	<0.0050	0.97	2.6	3.9	0.68	0.083	310	260	<50
B05@11'	08/23/2023	11'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S04@9'	08/21/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S05@10'	08/21/2023	10'	0.15	<0.0050	0.32	2	1	0.35	0.073	130	67	<50
S06@10'	08/23/2023	10'	1.2	<0.0050	3.2	26	6.8	2.8	0.26	900	100	<50
S07@9'	08/24/2023	9'	0.30	<0.0050	0.14	1.0	0.33	0.14	0.043	25	<50	<50
W03@9'	08/22/2023	9'	<0.0020	0.29	1	6.5	2.8	1.1	0.20	330	64	<50
W04@9'	08/24/2023	9'	0.13	<0.0050	7.5	59	19	8.2	1.5	2100	130	<50
2B01@12'	09/07/2023	12'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2N01@10'	09/07/2023	10'	0.078	<0.0050	4.3	20	9.6	4.8	0.29	430	750	<50
2S01@10'	09/07/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2W01@11'	09/06/2023	11'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2B02@12'	09/08/2023	12'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
2B03@12'	09/08/2023	12'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2N02@10'	09/08/2023	10'	0.015	<0.0050	0.062	0.27	0.1	0.03	0.0051	<50	21	<50
2S02@10'	09/08/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2W02@10'	09/08/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2B04@12'	09/11/2023	12'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2B05@12'	09/11/2023	12'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2S03@10'	09/11/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2S04@10'	09/11/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2S05@10'	09/11/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
Stock03	09/11/2023	COMP	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
Stock04	09/11/2023	COMP	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2B06@12'	09/12/2023	12'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2E01@10'	09/12/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2E02@10'	09/12/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
2N03@10'	09/12/2023	10'	0.015	<0.0050	0.26	2.5	2.1	0.89	0.12	<50	84	<50
2N04@10'	09/12/2023	10'	0.073	<0.0050	2.1	17	8.3	3.7	0.22	120	910	<50
2N05@10'	09/12/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	0.0066	<0.0050	<0.0038	61	11	<50
2S06@10'	09/12/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

[illegible]

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

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)
COGCC 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
COGCC 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
Stock03	09/11/2023	COMP	<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
Stock04	09/11/2023	COMP	<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
2B06@12'	09/12/2023	12'	<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
2E01@10'	09/12/2023	10'	<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
2E02@10'	09/12/2023	10'	<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
2N03@10'	09/12/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.153	0.354
2N04@10'	09/12/2023	10'	0.00532	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.215	0.494
2N05@10'	09/12/2023	10'	<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
2S06@10'	09/12/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
B01@10'	08/09/2023	10'	7.47	2.01	4.53	1.23
E01@9'	08/09/2023	9'	7.78	3.24	12.8	1.34
E02@10'	08/10/2023	10'	7.55	2.11	5.33	1.3
EBKG@7'	08/08/2023	7'	7.43	2.14	8.18	1.21
N02@10'	08/10/2023	10'	7.66	2.28	5.18	1.3
NBKG@7'	08/08/2023	7'	7.73	1.84	5.82	1.19
SBKG@7'	08/08/2023	7'	7.48	2.08	6.16	1.14
WBKG@7'	08/08/2023	7'	7.64	2.4	7.01	1.17
B02@12'	08/11/2023	12'	7.49	1.95	1.68	0.318
BKG01@10'	08/11/2023	10'	7.49	1.5	2.93	0.439
BKG02@10'	08/11/2023	10'	7.47	2.59	4.31	0.472
N03@10'	08/11/2023	10'	7.46	1.87	2.94	0.528
N04@10'	08/11/2023	10'	7.48	2.49	7.85	0.532
W01@10'	08/11/2023	10'	7.46	1.83	3.01	0.433
WCS01	08/11/2023	5'	8.12	0.811	1.49	0.195
WCS03	08/11/2023	10'	8.06	1.59	5.53	0.441
B03@12'	08/15/2023	12'	7.92	1.2	4.48	0.332
B04@11'	08/18/2023	11'	7.85	1.71	3.5	0.261
S01@9'	08/17/2023	9'	8.76	0.524	4.95	0.197
S03@10'	08/18/2023	10'	8.44	0.622	3.28	0.294
W02@9'	08/18/2023	9'	8.52	1.18	6.49	0.627

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
B05@11'	08/23/2023	11'	7.89	1.17	6.93	0.132
S04@9'	08/21/2023	9'	7.69	1.31	8.33	0.157
S05@10'	08/21/2023	10'	8.51	0.482	3.77	0.379
S06@10'	08/23/2023	10'	7.56	0.906	8.72	0.103
S07@9'	08/24/2023	9'	7.55	1.24	8.70	0.147
W03@9'	08/22/2023	9'	8.27	0.877	5.29	0.234
W04@9'	08/24/2023	9'	7.78	0.806	9.30	0.508
2B01@12'	09/07/2023	12'	7.66	1.76	2.69	0.508
2N01@10'	09/07/2023	10'	8.73	0.559	2.85	0.399
2S01@10'	09/07/2023	10'	7.93	1.1	5.34	0.386
2W01@11'	09/06/2023	11'	7.91	0.975	4.53	0.39
2B02@12'	09/08/2023	12'	7.82	1.82	1.9	0.392
2B03@12'	09/08/2023	12'	8.19	1.22	4.29	0.362
2N02@10'	09/08/2023	10'	8.55	0.718	4.48	0.651
2S02@10'	09/08/2023	10'	7.53	1.7	5.01	0.393
2W02@10'	09/08/2023	10'	8.06	0.87	4.97	0.43
2B04@12'	09/11/2023	12'	7.64	2.2	6.47	0.194
2B05@12'	09/11/2023	12'	7.77	1.8	6.04	0.174
2S03@10'	09/11/2023	10'	7.41	3.41	4.13	0.23
2S04@10'	09/11/2023	10'	7.54	1.64	6.86	0.174
2S05@10'	09/11/2023	10'	7.61	2.52	4.85	0.102

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
2B06@12'	09/12/2023	12'	7.51	3.45	2.41	0.227
2E01@10'	09/12/2023	10'	7.49	1.41	6.84	0.205
2E02@10'	09/12/2023	10'	7.46	2.5	8.03	0.161
2N03@10'	09/12/2023	10'	7.93	0.813	7.2	0.292
2N04@10'	09/12/2023	10'	7.96	0.749	6.38	0.292
2N05@10'	09/12/2023	10'	8.23	1.43	7.4	0.473
2S06@10'	09/12/2023	10'	7.8	1.33	6.49	0.141

Bold faced values exceed the COGCC Table 915-1 concentrations

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

NA - Not analyzed

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

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)
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
B01@10'	08/09/2023	10'	0.936	189	0.494	<0.30	2.67	9.99	2.14	<0.260	0.0649	10.8
E01@9'	08/09/2023	9'	1.68	274	0.62	<0.30	2.6	10.9	2.23	<0.260	0.0701	9.09
E02@10'	08/10/2023	10'	1.22	110	0.405	<0.30	2.49	7.68	2.25	0.301	0.0492	9.18
EBKG@7'	08/08/2023	7'	1.4	251	0.544	<0.30	2.21	10.1	2.04	<0.260	0.0657	8.38
N02@10'	08/10/2023	10'	1.22	201	0.529	<0.30	2.59	9.72	2.15	<0.260	0.0625	11
NBKG@7'	08/08/2023	7'	1.81	328	0.747	<0.30	2.55	12.9	2.5	<0.260	0.0811	9.34
SBKG@7'	08/08/2023	7'	0.795	118	0.236	<0.30	0.997	4.4	1.04	<0.260	<0.0200	4.66
WBKG@7'	08/08/2023	7'	1.53	262	0.659	<0.30	2.17	10.9	2.1	<0.260	0.0701	7.57
B02@12'	08/11/2023	12'	1.14	24.9	<0.200	<0.30	<0.400	4.16	1.92	<0.260	0.0207	6.54
BKG01@10'	08/11/2023	10'	1.19	248	0.774	<0.30	1.06	11.5	2.08	<0.260	0.0647	8.47
BKG02@10'	08/11/2023	10'	1.55	327	0.857	<0.30	0.901	12.2	2.3	<0.260	0.101	8.13
N03@10'	08/11/2023	10'	1.02	233	0.879	<0.30	1.44	13	2.24	<0.260	0.0962	11.8
N04@10'	08/11/2023	10'	1.36	247	0.745	<0.30	0.751	10.2	1.92	<0.260	0.081	6.75
W01@10'	08/11/2023	10'	0.991	232	0.755	<0.30	1.05	10.5	2.26	<0.260	0.0953	9.54
WCS01	08/11/2023	5'	1.13	141	0.436	<0.30	1.03	7.91	2.24	<0.260	0.0403	8.73
WCS03	08/11/2023	10'	1.5	232	0.782	<0.30	1.14	10.9	2.06	<0.260	0.0828	7.42
B03@12'	08/15/2023	12'	2.58	68.6	<0.200	<0.30	3.43	5.54	4.81	<0.260	0.0224	14.4
B04@11'	08/18/2023	11'	4.5	193	0.504	<0.30	6.09	10.8	4.58	<0.260	0.043	20.2
S01@9'	08/17/2023	9'	2.21	144	0.208	<0.30	2.01	5.67	2.15	0.517	<0.0200	11
S03@10'	08/18/2023	10'	3.34	64.3	<0.200	<0.30	3.55	6.15	4.62	<0.260	<0.0200	16.8
W02@9'	08/18/2023	9'	2.12	58.2	<0.200	<0.30	2.89	4.21	2.4	<0.260	<0.0200	10.3
B05@11'	08/23/2023	11'	1.27	82.1	<0.200	<0.30	1.97	5.26	2.74	<0.260	<0.0200	8.87
S04@9'	08/21/2023	9'	1.13	303	0.399	<0.30	2.56	11.7	2.22	0.265	0.0525	9.31
S05@10'	08/21/2023	10'	1.48	197	0.299	<0.30	3.06	11.6	2.46	0.292	0.0521	10.9
S06@10'	08/23/2023	10'	1.16	260	0.320	<0.30	2.31	8.79	2.08	0.557	0.0320	8.33
S07@9'	08/24/2023	9'	1.36	273	0.307	<0.30	2.34	9.75	2.08	0.307	0.0445	8.42
W03@9'	08/22/2023	9'	1.31	227	0.341	<0.30	2.70	9.96	2.29	<0.260	0.0416	9.82

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

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)
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
W04@9'	08/24/2023	9'	1.25	290	0.440	<0.30	2.63	11.6	2.21	0.346	0.0506	8.84
2B01@12'	09/07/2023	12'	3.13	192	0.361	<0.30	7.75	11.3	8.34	<0.260	0.076	32
2N01@10'	09/07/2023	10'	6.91	270	0.575	<0.30	9.58	15.4	7.41	0.614	0.059	31
2S01@10'	09/07/2023	10'	4.82	313	0.55	<0.30	6.53	14.4	6.38	0.339	0.0628	28.3
2W01@11'	09/06/2023	11'	3.7	229	0.508	<0.30	7.02	14.1	6.41	0.363	0.061	30.8
2B02@12'	09/08/2023	12'	4.39	151	0.318	<0.30	5.63	10.3	7.39	<0.260	0.0401	24.1
2B03@12'	09/08/2023	12'	2.48	164	0.372	<0.30	6.11	10	6.81	<0.260	0.0645	31.9
2N02@10'	09/08/2023	10'	5.88	258	0.568	<0.30	9.06	14.5	6.93	0.32	0.0646	30.3
2S02@10'	09/08/2023	10'	4.31	301	0.504	<0.30	7.58	13	6.5	<0.260	0.0484	27.9
2W02@10'	09/08/2023	10'	3.54	298	0.526	<0.30	6.86	13.6	6.52	0.301	0.0703	31
2B04@12'	09/11/2023	12'	3.2	303	0.396	<0.30	5.01	9.92	4.82	<0.260	0.0433	19.8
2B05@12'	09/11/2023	12'	3.63	272	0.44	<0.30	5.59	10.8	5.17	<0.260	0.05	21
2S03@10'	09/11/2023	10'	4.81	207	0.507	<0.30	8.04	13.5	6.32	0.408	0.0545	28.3
2S04@10'	09/11/2023	10'	4.43	281	0.533	<0.30	6.65	13.4	5.71	<0.260	0.0458	23.6
2S05@10'	09/11/2023	10'	5.02	297	0.57	<0.30	7.68	14.8	6.66	<0.260	0.0553	25.4
2B06@12'	09/12/2023	12'	1.29	110	0.259	<0.30	2.26	6.85	2.75	<0.260	0.0371	8.21
2E01@10'	09/12/2023	10'	0.84	175	0.275	<0.30	1.96	8.8	1.91	<0.260	0.0374	7.55
2E02@10'	09/12/2023	10'	0.873	179	0.208	<0.30	1.3	7.13	1.48	<0.260	0.0277	5.6
2N03@10'	09/12/2023	10'	1.23	303	0.314	<0.30	1.89	10.2	1.83	0.652	0.0404	7.17
2N04@10'	09/12/2023	10'	0.956	242	0.287	<0.30	1.88	8.59	1.68	<0.260	0.0331	6.2
2N05@10'	09/12/2023	10'	1.28	198	0.433	<0.30	2.73	12.9	2.15	0.268	0.0568	9.03
2S06@10'	09/12/2023	10'	0.785	286	0.318	<0.30	1.88	9.55	1.76	<0.260	0.0389	6.63

Bold faced values exceed the COGCC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

TABLE 5
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl- Benzene (µg/L)	1,3,5- Trimethyl- Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
COGCC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
GW01	08/11/2023	49	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
GW02	09/11/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA	NA

Bold face values exceed the COGCC limits

Red highlighted 915-1 Limits indicate the referenced groundwater screening level

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

TABLE 6
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
WPF III T6N-R64W-S18 L01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-007

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
COGCC Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
GW02	09/11/2023	2420	157	2200

Bold face values exceed the COGCC limits

Yellow highlighted 915-1 Limits indicate the referenced groundwater screening level

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

FIGURES

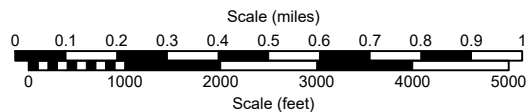
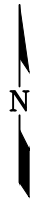
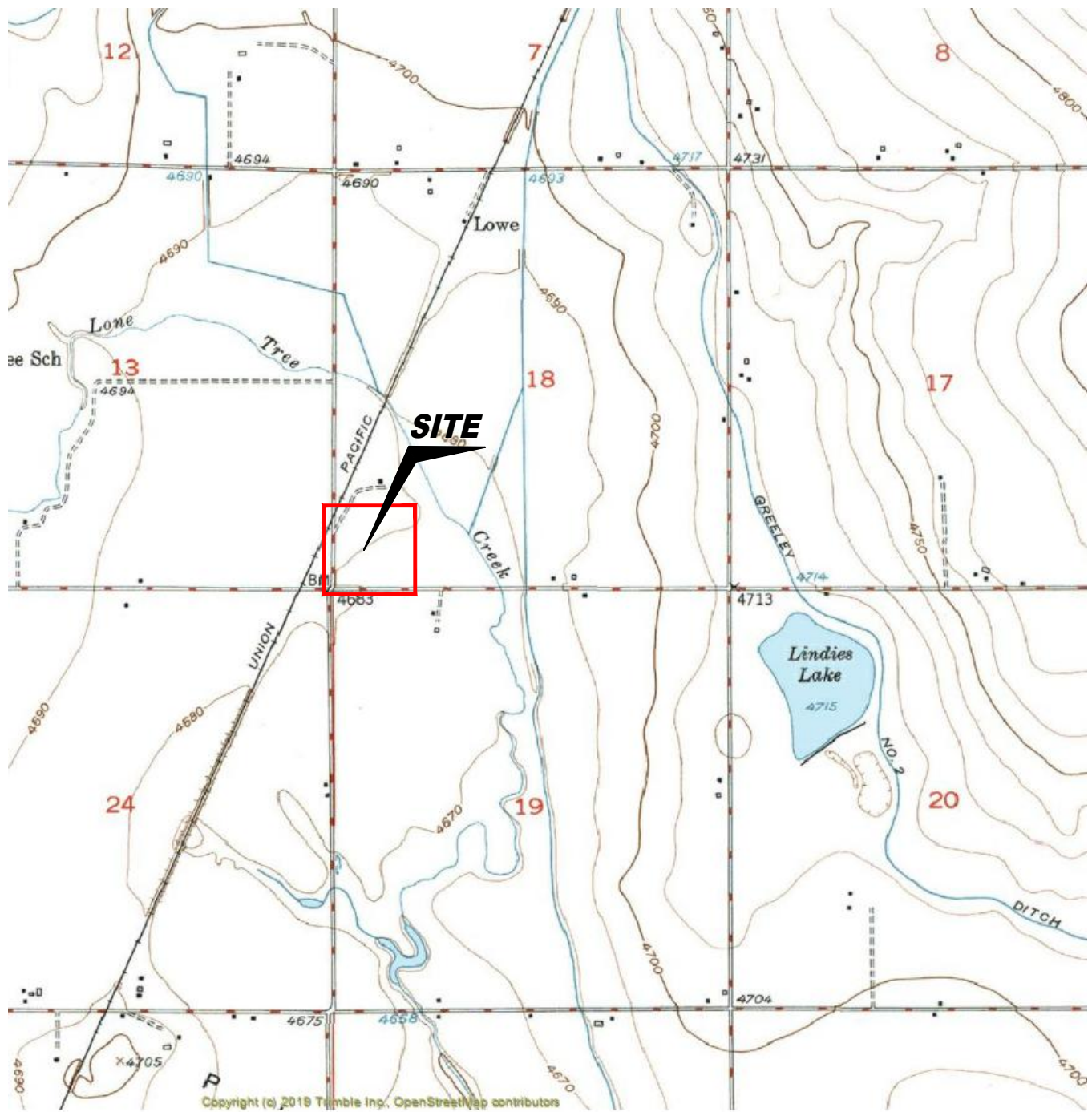
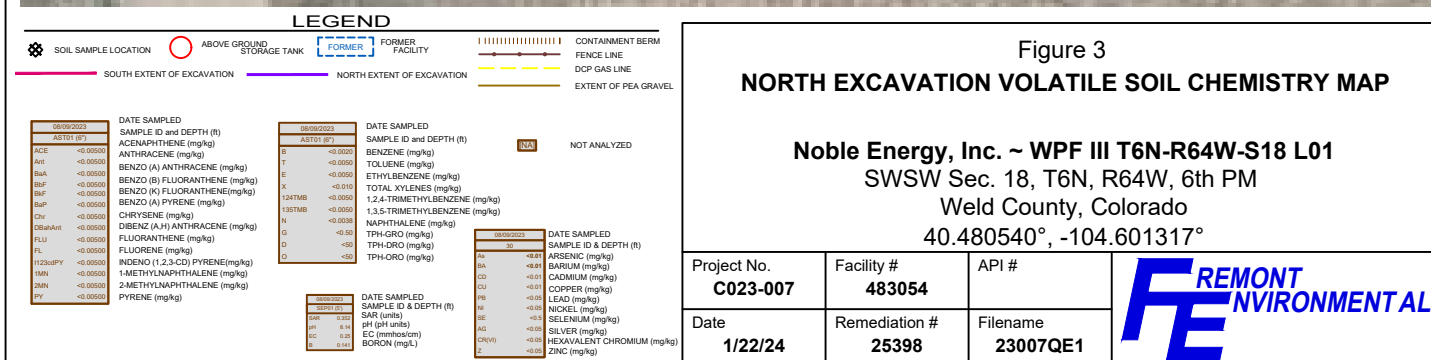


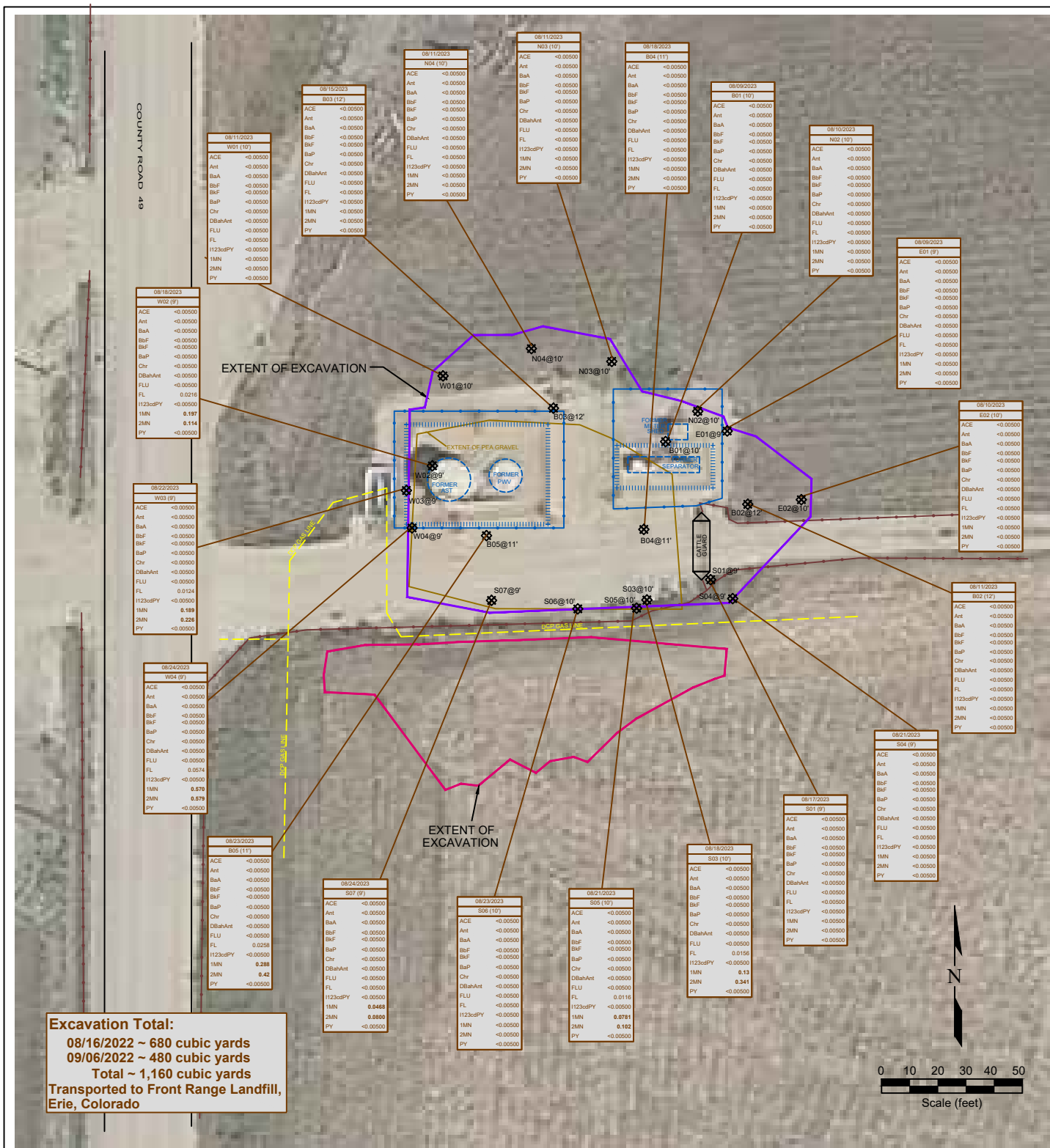
Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ WPF III T6N-R64W-S18 L01
 SWSW Sec. 18, T6N, R64W, 6th PM
 Weld County, Colorado
 40.480540°, -104.601317°

Project # C023-007	Facility # 483054	API #
Date 1/22/24	Remediation # 25398	Filename 23007TE1

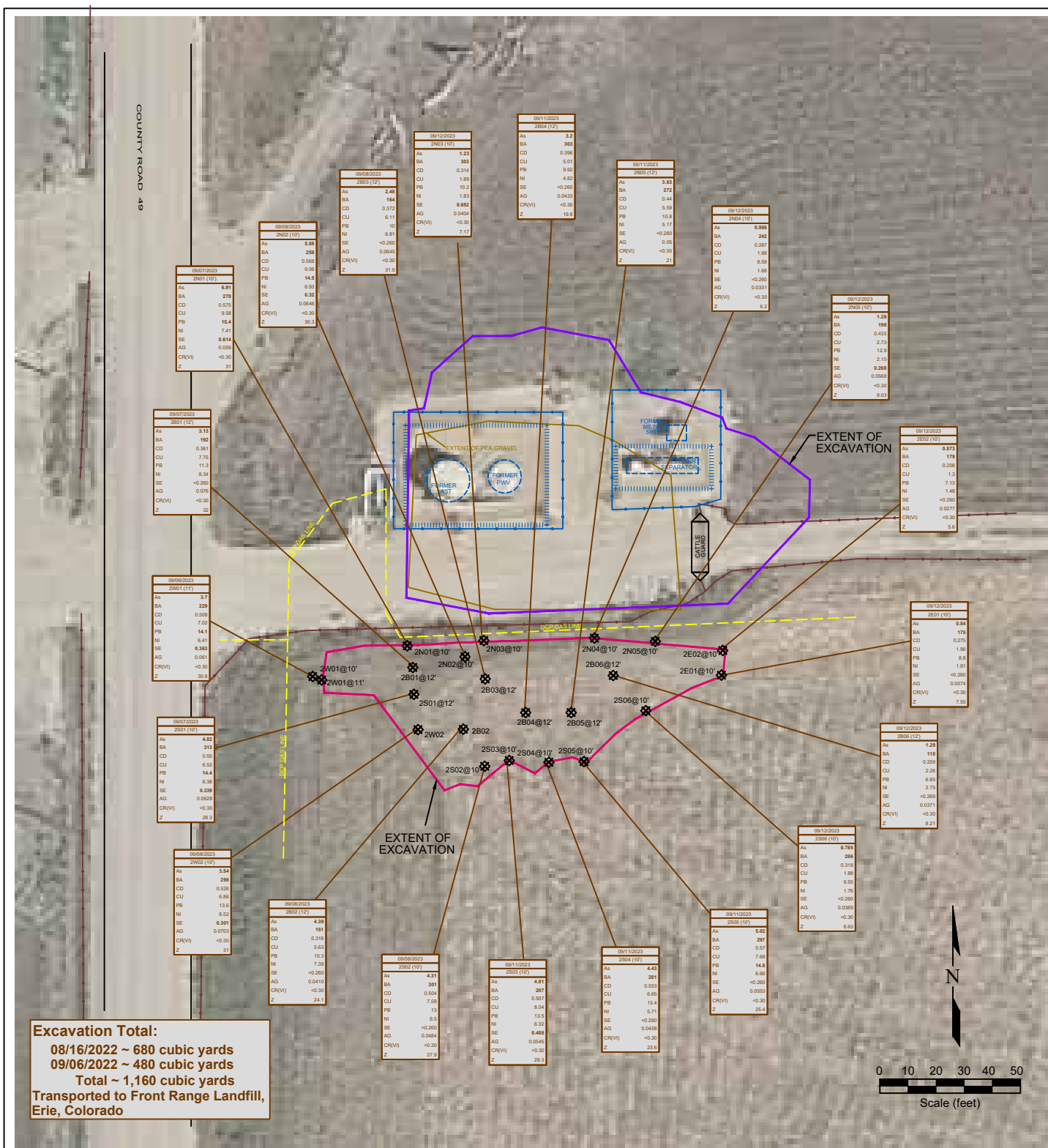


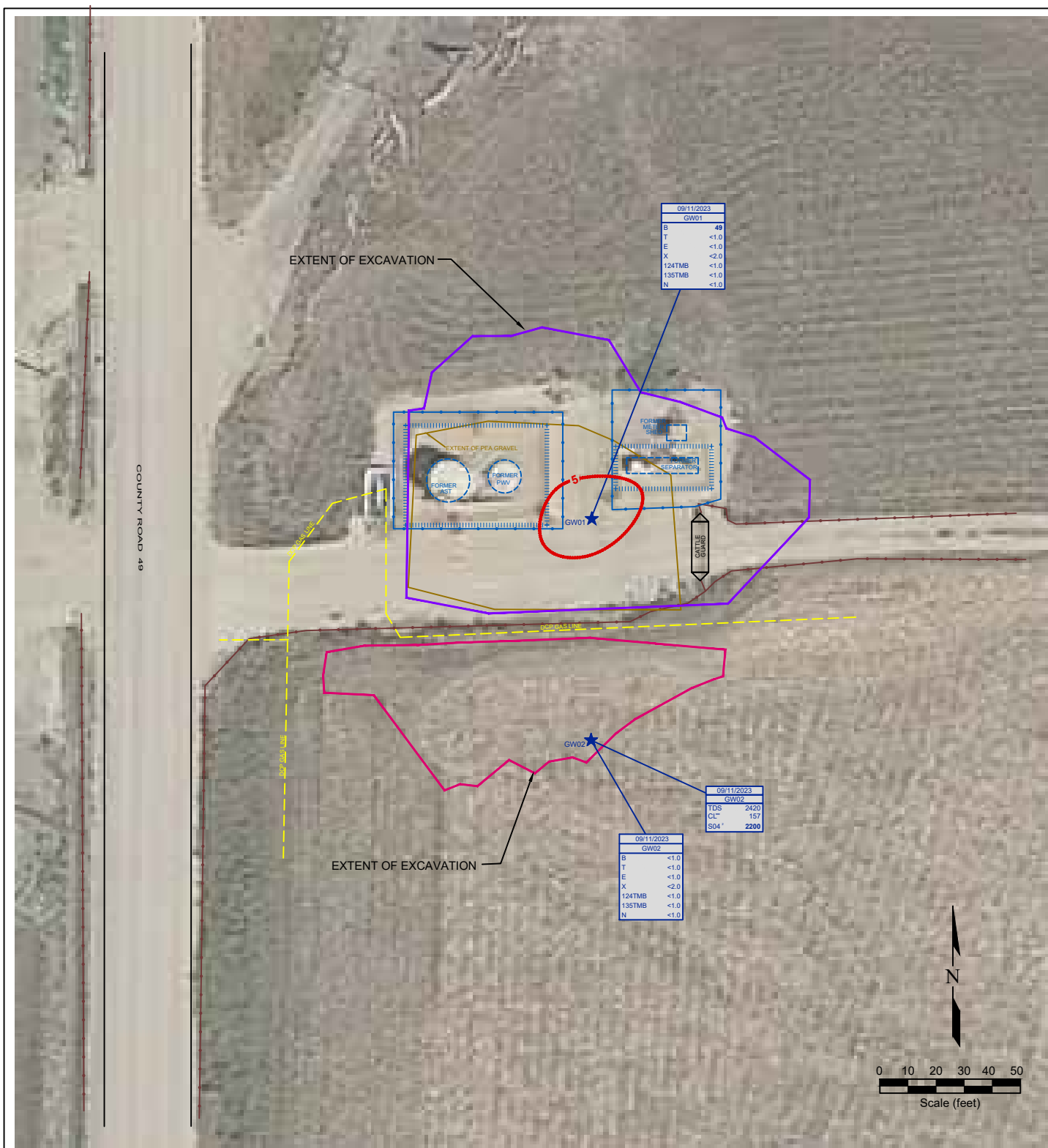




DATE SAMPLED SAMPLE ID & DEPTH (ft) 08/16/2022 AST01 (8") ACE <0.00500 Ant <0.00500 BaA <0.00500 BaP <0.00500 BbF <0.00500 BkF <0.00500 Chr <0.00500 DBaHAnt <0.00500 FLU <0.00500 FLUORENE (mg/kg) <0.00500 FLUORENE (mg/kg) <0.00500 INDENO (1,2,3-CD) PYRENE(mg/kg) <0.00500 1-METHYLNAPHTHALENE (mg/kg) <0.00500 2-METHYLNAPHTHALENE (mg/kg) <0.00500 PYRENE (mg/kg) <0.00500	DATE SAMPLED SAMPLE ID & DEPTH (ft) 08/16/2022 AST02 (8") ACE <0.00500 Ant <0.00500 BaA <0.00500 BaP <0.00500 BbF <0.00500 BkF <0.00500 Chr <0.00500 DBaHAnt <0.00500 FLU <0.00500 FLUORENE (mg/kg) <0.00500 FLUORENE (mg/kg) <0.00500 INDENO (1,2,3-CD) PYRENE(mg/kg) <0.00500 1-METHYLNAPHTHALENE (mg/kg) <0.00500 2-METHYLNAPHTHALENE (mg/kg) <0.00500 PYRENE (mg/kg) <0.00500	DATE SAMPLED SAMPLE ID & DEPTH (ft) 08/16/2022 AST03 (8") ACE <0.00500 Ant <0.00500 BaA <0.00500 BaP <0.00500 BbF <0.00500 BkF <0.00500 Chr <0.00500 DBaHAnt <0.00500 FLU <0.00500 FLUORENE (mg/kg) <0.00500 FLUORENE (mg/kg) <0.00500 INDENO (1,2,3-CD) PYRENE(mg/kg) <0.00500 1-METHYLNAPHTHALENE (mg/kg) <0.00500 2-METHYLNAPHTHALENE (mg/kg) <0.00500 PYRENE (mg/kg) <0.00500
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DATE SAMPLED SAMPLE ID & DEPTH (ft) 08/16/2022 AST04 (8") ACE <0.00500 Ant <0.00500 BaA <0.00500 BaP <0.00500 BbF <0.00500 BkF <0.00500 Chr <0.00500 DBaHAnt <0.00500 FLU <0.00500 FLUORENE (mg/kg) <0.00500 FLUORENE (mg/kg) <0.00500 INDENO (1,2,3-CD) PYRENE(mg/kg) <0.00500 1-METHYLNAPHTHALENE (mg/kg) <0.00500 2-METHYLNAPHTHALENE (mg/kg) <0.00500 PYRENE (mg/kg) <0.00500	DATE SAMPLED SAMPLE ID & DEPTH (ft) 08/16/2022 AST05 (8") ACE <0.00500 Ant <0.00500 BaA <0.00500 BaP <0.00500 BbF <0.00500 BkF <0.00500 Chr <0.00500 DBaHAnt <0.00500 FLU <0.00500 FLUORENE (mg/kg) <0.00500 FLUORENE (mg/kg) <0.00500 INDENO (1,2,3-CD) PYRENE(mg/kg) <0.00500 1-METHYLNAPHTHALENE (mg/kg) <0.00500 2-METHYLNAPHTHALENE (mg/kg) <0.00500 PYRENE (mg/kg) <0.00500	DATE SAMPLED SAMPLE ID & DEPTH (ft) 08/16/2022 AST06 (8") ACE <0.00500 Ant <0.00500 BaA <0.00500 BaP <0.00500 BbF <0.00500 BkF <0.00500 Chr <0.00500 DBaHAnt <0.00500 FLU <0.00500 FLUORENE (mg/kg) <0.00500 FLUORENE (mg/kg) <0.00500 INDENO (1,2,3-CD) PYRENE(mg/kg) <0.00500 1-METHYLNAPHTHALENE (mg/kg) <0.00500 2-METHYLNAPHTHALENE (mg/kg) <0.00500 PYRENE (mg/kg) <0.00500
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LEGEND

- ★ GROUNDWATER SAMPLE
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT BERM
- FENCE LINE
- DCP GAS LINE
- EXTENT OF PEA GRAVEL
- SOUTH EXTENT OF EXCAVATION
- NORTH EXTENT OF EXCAVATION

09/11/2023	DATE SAMPLED
GW02	SAMPLE ID
B	BENZENE (ug/L)
T	TOLUENE (ug/L)
E	ETHYLBENZENE (ug/L)
X	TOTAL XYLENES (ug/L)
124TMB	1,2,4-TRIMETHYLBENZENE (ug/L)
135TMB	1,3,5-TRIMETHYLBENZENE (ug/L)
N	NAPHTHALENE (ug/L)



INFERRED BENZENE ISOCONCENTRATION (ug/L)

09/11/2023	DATE SAMPLED
GW02	SAMPLE ID
TDS	TOTAL DISSOLVED SOLIDS (mg/L)
CL ⁻	CHLORIDE ION (mg/L)
SO4 ²⁻	SULFATE ION (mg/L)

Figure 11

GROUNDWATER CHEMISTRY MAP

Noble Energy, Inc. ~ WPF III T6N-R64W-S18 L01
 SWSW Sec. 18, T6N, R64W, 6th PM
 Weld County, Colorado
 40.480540°, -104.601317°

Project No.

C023-007

Facility #

483054

API #

23007QE5

Date

1/22/24

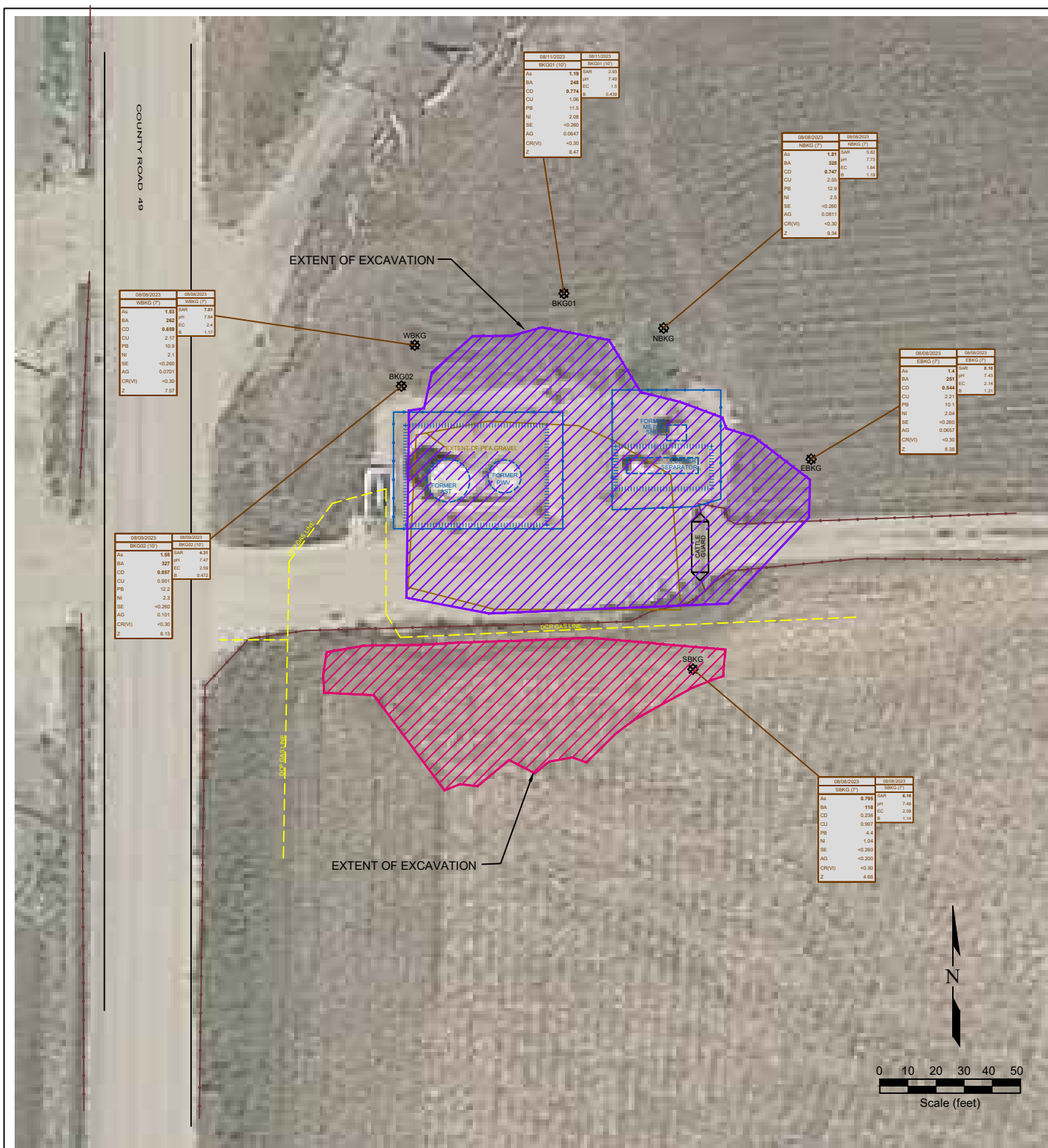
Remediation #

25398

Filename

23007QE5





LEGEND			
SOIL SAMPLE LOCATION ABOVE GROUND STORAGE TANK FORMER FACILITY FORMER STORAGE TANK SOUTH EXTENT OF EXCAVATION NORTH EXTENT OF EXCAVATION FENCE LINE DCP GAS LINE EXTENT OF PEA GRAVEL			
DATE SAMPLED 08/09/2023 SAMPLE ID & DEPTH (ft) AST01 (8) As <0.0000 An <0.0000 Ba <0.0000 BaP <0.0000 BaP <0.0000 BaP <0.0000 Ch <0.0000 DBaA <0.0000 FLU <0.0000 FLU <0.0000 FLU <0.0000 INDO (1,2,3,4) <0.0000 1-METHYLNAPHTHALENE <0.0000 2-METHYLNAPHTHALENE <0.0000 PY <0.0000	DATE SAMPLED 08/09/2023 SAMPLE ID & DEPTH (ft) AST02 (8) As <0.0000 An <0.0000 Ba <0.0000 BaP <0.0000 BaP <0.0000 BaP <0.0000 Ch <0.0000 DBaA <0.0000 FLU <0.0000 FLU <0.0000 FLU <0.0000 INDO (1,2,3,4) <0.0000 1-METHYLNAPHTHALENE <0.0000 2-METHYLNAPHTHALENE <0.0000 PY <0.0000	DATE SAMPLED 08/09/2023 SAMPLE ID & DEPTH (ft) AST03 (8) As <0.0000 An <0.0000 Ba <0.0000 BaP <0.0000 BaP <0.0000 BaP <0.0000 Ch <0.0000 DBaA <0.0000 FLU <0.0000 FLU <0.0000 FLU <0.0000 INDO (1,2,3,4) <0.0000 1-METHYLNAPHTHALENE <0.0000 2-METHYLNAPHTHALENE <0.0000 PY <0.0000	DATE SAMPLED 08/09/2023 SAMPLE ID & DEPTH (ft) AST04 (8) As <0.0000 An <0.0000 Ba <0.0000 BaP <0.0000 BaP <0.0000 BaP <0.0000 Ch <0.0000 DBaA <0.0000 FLU <0.0000 FLU <0.0000 FLU <0.0000 INDO (1,2,3,4) <0.0000 1-METHYLNAPHTHALENE <0.0000 2-METHYLNAPHTHALENE <0.0000 PY <0.0000

Figure 12

BACKGROUND SAMPLE SOIL CHEMISTRY MAP

Noble Energy, Inc. ~ WPF III T6N-R64W-S18 L01

SWSW Sec. 18, T6N, R64W, 6th PM

Weld County, Colorado

40.480540°, -104.601317°

Project No.	Facility #	API #
C023-007	483054	
Date	Remediation #	Filename
1/22/24	25398	23007QE4

REMONTE ENVIRONMENTAL

APPENDIX A

PHOTO LOG

Photo Log



Description:

Initial Excavation Facing SE

Photo Log



Description:

Initial Excavation Facing NE

Photo Log

DIRECTION
SE (T)

40.48060°N
104.60137°W

ACCURACY 5 m
DATUM WGS84



WPF III

Overview

2023-08-10
14:00:51-06:00

Description:

Excavation Facing SE 8/10/2023

Photo Log



Description:

GW01

Photo Log

DIRECTION
NW (T)

40.48051°N
104.60116°W

ACCURACY 5 m
DATUM WGS84



WPF III

Excavation
progress

2023-08-11
13:30:40-06:00

Description:

Excavation Facing NW 8/11/23

Photo Log

DIRECTION
W (T)

40.48055°N
104.60135°W

ACCURACY 4 m
DATUM WGS84



WPF III

Excavation progress

2023-08-14
11:24:05-06:00

Description:

Excavation Facing W 8/14/23

Photo Log

DIRECTION
SE (T)

40.48067°N
104.60156°W

ACCURACY 5 m
DATUM WGS84



WPF III

Excavation
progress

2023-08-15
08:38:17-06:00

Description:

Excavation Facing SE 8/15/23

Photo Log

DIRECTION
E (T)

40.48061°N
104.60158°W

ACCURACY 5 m
DATUM WGS84



Description:

Excavation Facing E 8/15/23

Photo Log

DIRECTION
W (T)

40.48055°N
104.60116°W

ACCURACY 4 m
DATUM WGS84



WPF III

Excavation progress

2023-08-17
11:32:57-06:00

Description:

Excavation Facing W 8/17/23

Photo Log

DIRECTION
SW (T)

40.48061°N
104.60130°W

ACCURACY 5 m
DATUM WGS84



WPF III

Excavation progress

2023-08-18
08:38:16-06:00

Description:

Excavation Facing SW 8/18/23

Photo Log

DIRECTION
NW (T)

40.48045°N
104.60118°W

ACCURACY 5 m
DATUM WGS84



WPF III

Excavation
progress

2023-08-18
14:43:59-06:00

Description:

Excavation Facing NW 8/18/23

Photo Log

DIRECTION
SW (T)

40.48062°N
104.60130°W

ACCURACY 5 m
DATUM WGS84



WPF III

Pea gravel added to
impacted interval.

2023-08-21
11:38:22-06:00

Description:

Excavation Facing SW 8/21/23

Photo Log

DIRECTION
W (T)

40.48049°N
104.60116°W

ACCURACY 5 m
DATUM WGS84



WPF III

Pea gravel added to
impacted interval.

2023-08-21
13:18:10-06:00

Description:

Excavation Facing W 8/21/23

Photo Log

DIRECTION
SW (T)

40.48058°N
104.60126°W

ACCURACY 4 m
DATUM WGS84



WPF III

Excavation progress

2023-08-23
08:01:39-06:00

Description:

Excavation Facing SW 8/23/23

Photo Log

DIRECTION
W (T)

40.48061°N
104.60125°W

ACCURACY 5 m
DATUM WGS84



WPF III

Excavation progress

2023-08-24
08:26:04-06:00

Description:

Excavation Facing W 8/24/23

Photo Log

DIRECTION
W (T)

40.48053°N
104.60117°W

ACCURACY 5 m
DATUM WGS84



WPF III

Excavation progress

2023-08-25
12:00:29-06:00

Description:

Excavation Facing W 8/25/23

Photo Log

DIRECTION
SE (T)

40.48063°N
104.60156°W

ACCURACY 5 m
DATUM WGS84



WPF III

Excavation progress

2023-08-25
12:01:24-06:00

Description:

Excavation Facing SE 8/25/23

Photo Log

DIRECTION
NE (T)

40.48042°N
104.60150°W

ACCURACY 5 m
DATUM WGS84



WPF III

Excavation progress

2023-08-25
12:05:15-06:00

Description:

Excavation Facing NE 8/25/23



Description:

Part II Excavation Facing SW on September 7, 2023



Description:

Part II Excavation Facing ENE on September 8, 2023

Photo Log



Description:

Part II Excavation Facing W on September 11, 2023



Description:

Part II Excavation Facing SW on September 11, 2023

Photo Log



Description:

Part II Excavation Facing NNW on September 11, 2023

Photo Log



Description:

Part II Excavation Facing NW on September 12, 2023



Description:

Part II Excavation Facing West on September 12, 2023

APPENDIX B

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

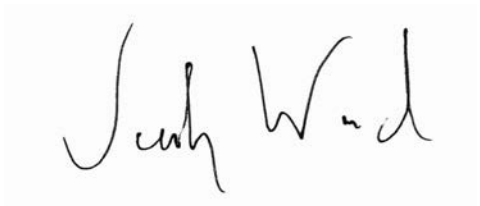
303.277.9310

August 16, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - WPF III
Work Order #2308232

Enclosed are the results of analyses for samples received by Summit Scientific on 08/10/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@10'	2308232-01	Soil	08/09/23 09:05	08/10/23 16:30
E01@9'	2308232-03	Soil	08/09/23 10:45	08/10/23 16:30
N02@10'	2308232-04	Soil	08/10/23 09:10	08/10/23 16:30
E02@10'	2308232-05	Soil	08/10/23 11:05	08/10/23 16:30
STOCK01	2308232-06	Soil	08/10/23 10:30	08/10/23 16:30
NBKG@7'	2308232-08	Soil	08/08/23 00:00	08/10/23 16:30
EBKG@7'	2308232-10	Soil	08/08/23 00:00	08/10/23 16:30
SBKG@7'	2308232-12	Soil	08/08/23 00:00	08/10/23 16:30
WBKG@7'	2308232-14	Soil	08/08/23 00:00	08/10/23 16:30

Summit Scientific

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

Client: Fremont Environmental Inc.		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: Noble Energy Inc.	
Address: 8305 6th Street		E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG, ChrisL, StanG, etc.		Project Name/Location: WPF III	
City/State/Zip: Wellington, CO, 80549		@fremontenv.com		AFE#:	
Phone: (970) 213-7488		Project Name: WPF III		PO/Billing Codes:	
Sampler Name: Chris Lattes (chrisl@fremontenv.com)		Project Number:		Contact: Dan Peterson	

					Preservative				Matrix			Analysis Requested							Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	TPH (GRO/DRO/ORO)	BTEX, TMB's, Naphthalene	PAH's	pH, EC, SAR, Boron	Table 915 Metals	TDS, Chloride, Sulfate		HOLD	
1	Bx1 @ 10'	8/9/23	9:05	2			X			X			X	X	X	X	X				
2	Nx1 @ 9'	8/9/23	9:15	2			X			X										X	Hold
3	Ex1 @ 9'	8/9/23	10:45	2			X			X			X	X	X	X	X				
4	Nx2 @ 10'	8/10/23	9:10	2			X			X			X	X	X	X	X				
5	Ex2 @ 10'	8/10/23	11:05	2			X			X			X	X	X	X	X				
6	Stock @ 10'	8/10/23	10:30	2			X			X			X	X	X						
7	NBK6 @ 5'	8/8/23		1			X			X										X	
8	NBK6 @ 7'	↓		1			X			X						X	X				
9	EBK6 @ 5'		1			X			X											X	
10	EBK6 @ 7'		1			X			X								X	X			
11	SBK6 @ 5'		1			X			X											X	
12	SBK6 @ 7'		1			X			X								X	X			
13	WBK6 @ 5'		1			X			X											X	
14	WBK6 @ 7'		8/8/23		1			X			X						X	X			
15																					

Relinquished by: Chris Lattes	Date/Time: 8/10/23 16:00	Received by: S2	Date/Time: 8/10/23 16:00	TAT Business Days	Field DO	Notes: Excavation
Relinquished by: S2	Date/Time: 8/10/23 1030	Received by: [Signature]	Date/Time: 8/10/23 1030	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 12.1	Corrected Temperature: 10	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2308232Client: Fremont Client Project ID: WPF IITShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 12.1 Thermometer # 1

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

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

Josh
Custodian Printed Name

08/10/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

B01@10'
2308232-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0450	08/10/23	08/10/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0317	79.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0361	90.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0452	08/10/23	08/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.50	76.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

B01@10'
2308232-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0463	08/11/23	08/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0251	75.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.23	0.0100	mg/L	1	BGH0492	08/11/23	08/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

B01@10'
2308232-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.936	0.200	mg/kg dry	1	BGH0458	08/11/23	08/11/23	EPA 6020B
Barium	189	0.400	"	"	"	"	"	"
Cadmium	0.494	0.200	"	"	"	"	"	"
Copper	2.67	0.400	"	"	"	"	"	"
Lead	9.99	0.200	"	"	"	"	"	"
Nickel	2.14	0.400	"	"	"	"	"	"
Silver	0.0649	0.0200	"	"	"	"	"	"
Zinc	10.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0461	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	106	0.0706	mg/L dry	1	BGH0454	08/10/23	08/11/23	EPA 6020B	
Magnesium	35.9	0.0706	"	"	"	"	"	"	
Sodium	252	0.0706	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.53	0.00100	units	1	BGH0538	08/14/23	08/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

B01@10'
2308232-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	70.9	%	1	BGH0489	08/11/23	08/14/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.01	0.0100	mmhos/cm	1	BGH0502	08/11/23	08/11/23	EPA 120.1	

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

Date Sampled: **08/09/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.47		pH Units	1	BGH0501	08/11/23	08/11/23	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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

E01@9'
2308232-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0450	08/10/23	08/10/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0330	82.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0452	08/10/23	08/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.0	87.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

E01@9'
2308232-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGH0463	08/11/23	08/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0370	111 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	1.34	0.0100	mg/L	1	BGH0492	08/11/23	08/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

E01@9'
2308232-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.68	0.200	mg/kg dry	1	BGH0458	08/11/23	08/11/23	EPA 6020B
Barium	274	0.400	"	"	"	"	"	"
Cadmium	0.620	0.200	"	"	"	"	"	"
Copper	2.60	0.400	"	"	"	"	"	"
Lead	10.9	0.200	"	"	"	"	"	"
Nickel	2.23	0.400	"	"	"	"	"	"
Silver	0.0701	0.0200	"	"	"	"	"	"
Zinc	9.09	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0461	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	89.5	0.0684	mg/L dry	1	BGH0454	08/10/23	08/11/23	EPA 6020B	
Magnesium	24.3	0.0684	"	"	"	"	"	"	
Sodium	619	0.0684	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.8	0.00100	units	1	BGH0538	08/14/23	08/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/09/23 10:45**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

E01@9'
2308232-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	73.1	%	1	BGH0489	08/11/23	08/14/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.24	0.0100	mmhos/cm	1	BGH0502	08/11/23	08/11/23	EPA 120.1	

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

Date Sampled: **08/09/23 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BGH0501	08/11/23	08/11/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

N02@10'
2308232-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0450	08/10/23	08/10/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0300	74.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0356	89.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0452	08/10/23	08/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.5	84.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

N02@10'
2308232-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0463	08/11/23	08/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0383	115 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0238	71.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.30	0.0100	mg/L	1	BGH0492	08/11/23	08/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

N02@10'
2308232-04 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.22	0.200	mg/kg dry	1	BGH0458	08/11/23	08/11/23	EPA 6020B
Barium	201	0.400	"	"	"	"	"	"
Cadmium	0.529	0.200	"	"	"	"	"	"
Copper	2.59	0.400	"	"	"	"	"	"
Lead	9.72	0.200	"	"	"	"	"	"
Nickel	2.15	0.400	"	"	"	"	"	"
Silver	0.0625	0.0200	"	"	"	"	"	"
Zinc	11.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0461	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	125	0.0685	mg/L dry	1	BGH0454	08/10/23	08/11/23	EPA 6020B	
Magnesium	43.1	0.0685	"	"	"	"	"	"	
Sodium	309	0.0685	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.18	0.00100	units	1	BGH0538	08/14/23	08/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/10/23 09:10**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

N02@10'
2308232-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	72.9	%	1	BGH0489	08/11/23	08/14/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.28	0.0100	mmhos/cm	1	BGH0502	08/11/23	08/11/23	EPA 120.1	

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

Date Sampled: **08/10/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.66		pH Units	1	BGH0501	08/11/23	08/11/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

E02@10'
2308232-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0450	08/10/23	08/10/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0287	71.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0357	89.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0452	08/10/23	08/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.2	89.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

E02@10'
2308232-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0463	08/11/23	08/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0361	108 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.30	0.0100	mg/L	1	BGH0492	08/11/23	08/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/10/23 11:05**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

E02@10'
2308232-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.22	0.200	mg/kg dry	1	BGH0458	08/11/23	08/11/23	EPA 6020B	
Barium	110	0.400	"	"	"	"	"	"	
Cadmium	0.405	0.200	"	"	"	"	"	"	
Copper	2.49	0.400	"	"	"	"	"	"	
Lead	7.68	0.200	"	"	"	"	"	"	
Nickel	2.25	0.400	"	"	"	"	"	"	
Silver	0.0492	0.0200	"	"	"	"	"	"	
Zinc	9.18	0.400	"	"	"	"	"	"	
Selenium	0.301	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0461	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	107	0.0654	mg/L dry	1	BGH0454	08/10/23	08/11/23	EPA 6020B	
Magnesium	34.5	0.0654	"	"	"	"	"	"	
Sodium	284	0.0654	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.33	0.00100	units	1	BGH0538	08/14/23	08/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/10/23 11:05**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

E02@10'
2308232-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	76.5	%	1	BGH0489	08/11/23	08/14/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.11	0.0100	mmhos/cm	1	BGH0502	08/11/23	08/11/23	EPA 120.1	

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

Date Sampled: **08/10/23 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.55		pH Units	1	BGH0501	08/11/23	08/11/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/16/23 09:42

STOCK01
2308232-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/10/23 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0450	08/10/23	08/10/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/10/23 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0274	68.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0370	92.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/10/23 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0452	08/10/23	08/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/10/23 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.02	72.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

STOCK01
2308232-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/10/23 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGH0463	08/11/23	08/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/10/23 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0282	84.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0176	52.9 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

NBKG@7'
2308232-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	1.19	0.0100	mg/L	1	BGH0492	08/11/23	08/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.81	0.200	mg/kg dry	1	BGH0458	08/11/23	08/11/23	EPA 6020B	
Barium	328	0.400	"	"	"	"	"	"	
Cadmium	0.747	0.200	"	"	"	"	"	"	
Copper	2.55	0.400	"	"	"	"	"	"	
Lead	12.9	0.200	"	"	"	"	"	"	
Nickel	2.50	0.400	"	"	"	"	"	"	
Silver	0.0811	0.0200	"	"	"	"	"	"	
Zinc	9.34	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0461	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	69.7	0.0690	mg/L dry	1	BGH0454	08/10/23	08/11/23	EPA 6020B	
Magnesium	21.8	0.0690	"	"	"	"	"	"	
Sodium	256	0.0690	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

NBKG@7'
2308232-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.82	0.00100	units	1	BGH0538	08/14/23	08/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	72.5		%	1	BGH0489	08/11/23	08/14/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.84	0.0100	mmhos/cm	1	BGH0502	08/11/23	08/11/23	EPA 120.1	

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

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BGH0501	08/11/23	08/11/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

EBKG@7'
2308232-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	1.21	0.0100	mg/L	1	BGH0492	08/11/23	08/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.40	0.200	mg/kg dry	1	BGH0458	08/11/23	08/11/23	EPA 6020B	
Barium	251	0.400	"	"	"	"	"	"	
Cadmium	0.544	0.200	"	"	"	"	"	"	
Copper	2.21	0.400	"	"	"	"	"	"	
Lead	10.1	0.200	"	"	"	"	"	"	
Nickel	2.04	0.400	"	"	"	"	"	"	
Silver	0.0657	0.0200	"	"	"	"	"	"	
Zinc	8.38	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0461	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	55.5	0.0668	mg/L dry	1	BGH0454	08/10/23	08/11/23	EPA 6020B	
Magnesium	15.8	0.0668	"	"	"	"	"	"	
Sodium	309	0.0668	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

EBKG@7'
2308232-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.18	0.00100	units	1	BGH0538	08/14/23	08/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	74.8		%	1	BGH0489	08/11/23	08/14/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.14	0.0100	mmhos/cm	1	BGH0502	08/11/23	08/11/23	EPA 120.1	

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

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.43		pH Units	1	BGH0501	08/11/23	08/11/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

SBKG@7'
2308232-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	1.14	0.0100	mg/L	1	BGH0492	08/11/23	08/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.795	0.200	mg/kg dry	1	BGH0458	08/11/23	08/11/23	EPA 6020B	
Barium	118	0.400	"	"	"	"	"	"	
Cadmium	0.236	0.200	"	"	"	"	"	"	
Copper	0.997	0.400	"	"	"	"	"	"	
Lead	4.40	0.200	"	"	"	"	"	"	
Nickel	1.04	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.66	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0461	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	91.7	0.0645	mg/L dry	1	BGH0454	08/10/23	08/11/23	EPA 6020B	
Magnesium	31.5	0.0645	"	"	"	"	"	"	
Sodium	304	0.0645	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

SBKG@7'
2308232-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.16	0.00100	units	1	BGH0538	08/14/23	08/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.5		%	1	BGH0489	08/11/23	08/14/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.08	0.0100	mmhos/cm	1	BGH0502	08/11/23	08/11/23	EPA 120.1	

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

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.48		pH Units	1	BGH0501	08/11/23	08/11/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

WBKG@7'
2308232-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	1.17	0.0100	mg/L	1	BGH0492	08/11/23	08/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.53	0.200	mg/kg dry	1	BGH0458	08/11/23	08/11/23	EPA 6020B	
Barium	262	0.400	"	"	"	"	"	"	
Cadmium	0.659	0.200	"	"	"	"	"	"	
Copper	2.17	0.400	"	"	"	"	"	"	
Lead	10.9	0.200	"	"	"	"	"	"	
Nickel	2.10	0.400	"	"	"	"	"	"	
Silver	0.0701	0.0200	"	"	"	"	"	"	
Zinc	7.57	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0461	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	99.8	0.0695	mg/L dry	1	BGH0454	08/10/23	08/11/23	EPA 6020B	
Magnesium	40.0	0.0695	"	"	"	"	"	"	
Sodium	387	0.0695	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

WBKG@7'
2308232-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.01	0.00100	units	1	BGH0538	08/14/23	08/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	71.9		%	1	BGH0489	08/11/23	08/14/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.40	0.0100	mmhos/cm	1	BGH0502	08/11/23	08/11/23	EPA 120.1	

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

Date Sampled: **08/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.64		pH Units	1	BGH0501	08/11/23	08/11/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGH0450 - EPA 5030 Soil MS

Blank (BGH0450-BLK1)

Prepared: 08/10/23 Analyzed: 08/11/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0308		"	0.0400		77.0	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0352		"	0.0400		88.0	50-150			

LCS (BGH0450-BS1)

Prepared: 08/10/23 Analyzed: 08/11/23

Benzene	0.155	0.0020	mg/kg	0.150		104	70-130			
Toluene	0.164	0.0050	"	0.150		109	70-130			
Ethylbenzene	0.192	0.0050	"	0.150		128	70-130			
m,p-Xylene	0.372	0.010	"	0.300		124	70-130			
o-Xylene	0.173	0.0050	"	0.150		115	70-130			
1,2,4-Trimethylbenzene	0.175	0.0050	"	0.150		117	70-130			
1,3,5-Trimethylbenzene	0.180	0.0050	"	0.150		120	70-130			
Naphthalene	0.118	0.0038	"	0.150		78.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0218		"	0.0400		54.5	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0354		"	0.0400		88.6	50-150			

Matrix Spike (BGH0450-MS1)

Source: 2308231-01

Prepared: 08/10/23 Analyzed: 08/11/23

Benzene	0.143	0.0020	mg/kg	0.150	ND	95.3	70-130			
Toluene	0.149	0.0050	"	0.150	ND	99.5	70-130			
Ethylbenzene	0.172	0.0050	"	0.150	ND	115	70-130			
m,p-Xylene	0.337	0.010	"	0.300	ND	112	70-130			
o-Xylene	0.152	0.0050	"	0.150	ND	101	70-130			
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.150	ND	104	70-130			
1,3,5-Trimethylbenzene	0.158	0.0050	"	0.150	ND	105	70-130			
Naphthalene	0.133	0.0038	"	0.150	ND	88.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0266		"	0.0400		66.5	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0346		"	0.0400		86.4	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

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

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

Batch BGH0450 - EPA 5030 Soil MS

Matrix Spike Dup (BGH0450-MSD1)	Source: 2308231-01			Prepared: 08/10/23 Analyzed: 08/11/23						
Benzene	0.144	0.0020	mg/kg	0.150	ND	95.8	70-130	0.482	30	
Toluene	0.149	0.0050	"	0.150	ND	99.7	70-130	0.141	30	
Ethylbenzene	0.177	0.0050	"	0.150	ND	118	70-130	2.59	30	
m,p-Xylene	0.344	0.010	"	0.300	ND	115	70-130	2.08	30	
o-Xylene	0.154	0.0050	"	0.150	ND	103	70-130	1.76	30	
1,2,4-Trimethylbenzene	0.160	0.0050	"	0.150	ND	107	70-130	2.39	30	
1,3,5-Trimethylbenzene	0.164	0.0050	"	0.150	ND	109	70-130	3.60	30	
Naphthalene	0.109	0.0038	"	0.150	ND	72.7	70-130	19.9	30	
Surrogate: 1,2-Dichloroethane-d4	0.0287		"	0.0400		71.8	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.4	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGH0452 - EPA 3550A

Blank (BGH0452-BLK1)

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.8		"	12.5		86.3	30-150			

LCS (BGH0452-BS1)

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	486	50	mg/kg	500		97.2	70-130			
Surrogate: o-Terphenyl	10.1		"	12.5		80.5	30-150			

Matrix Spike (BGH0452-MS1)

Source: 2308231-01

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	394	50	mg/kg	500	7.04	77.4	70-130			
Surrogate: o-Terphenyl	10.7		"	12.5		85.7	30-150			

Matrix Spike Dup (BGH0452-MSD1)

Source: 2308231-01

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	421	50	mg/kg	500	7.04	82.8	70-130	6.57	20	
Surrogate: o-Terphenyl	10.2		"	12.5		81.3	30-150			

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0463 - EPA 5030 Soil MS

Blank (BGH0463-BLK1)

Prepared & Analyzed: 08/11/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0275		"	0.0333		82.4	40-150			
Surrogate: Fluoranthene-d10	0.0293		"	0.0333		88.0	40-150			

LCS (BGH0463-BS1)

Prepared & Analyzed: 08/11/23

Acenaphthene	0.0268	0.00500	mg/kg	0.0333		80.3	31-137			
Anthracene	0.0279	0.00500	"	0.0333		83.8	30-120			
Benzo (a) anthracene	0.0230	0.00500	"	0.0333		69.1	30-120			
Benzo (a) pyrene	0.0252	0.00500	"	0.0333		75.7	30-120			
Benzo (b) fluoranthene	0.0276	0.00500	"	0.0333		82.7	30-120			
Benzo (k) fluoranthene	0.0273	0.00500	"	0.0333		81.9	30-120			
Chrysene	0.0277	0.00500	"	0.0333		83.0	30-120			
Dibenz (a,h) anthracene	0.0255	0.00500	"	0.0333		76.6	30-120			
Fluoranthene	0.0278	0.00500	"	0.0333		83.5	30-120			
Fluorene	0.0262	0.00500	"	0.0333		78.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0194	0.00500	"	0.0333		58.3	30-120			
Pyrene	0.0275	0.00500	"	0.0333		82.5	35-142			
1-Methylnaphthalene	0.0228	0.00500	"	0.0333		68.3	35-142			
2-Methylnaphthalene	0.0298	0.00500	"	0.0333		89.4	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0365		"	0.0333		109	40-150			
Surrogate: Fluoranthene-d10	0.0327		"	0.0333		98.0	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0463 - EPA 5030 Soil MS

Matrix Spike (BGH0463-MS1)			Source: 2308182-01		Prepared & Analyzed: 08/11/23						
Acenaphthene	0.0269	0.00500	mg/kg	0.0333	ND	80.8	31-137				
Anthracene	0.0183	0.00500	"	0.0333	ND	55.0	30-120				
Benzo (a) anthracene	0.0192	0.00500	"	0.0333	ND	57.7	30-120				
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.5	30-120				
Benzo (b) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.7	30-120				
Benzo (k) fluoranthene	0.0171	0.00500	"	0.0333	ND	51.4	30-120				
Chrysene	0.0250	0.00500	"	0.0333	ND	75.0	30-120				
Dibenz (a,h) anthracene	0.0140	0.00500	"	0.0333	ND	42.0	30-120				
Fluoranthene	0.0186	0.00500	"	0.0333	ND	55.8	30-120				
Fluorene	0.0241	0.00500	"	0.0333	ND	72.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0145	0.00500	"	0.0333	ND	43.6	30-120				
Pyrene	0.0173	0.00500	"	0.0333	ND	51.8	35-142				QR-02
1-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.4	15-130				
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.6	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0332		"	0.0333		99.7	40-150				
Surrogate: Fluoranthene-d10	0.0215		"	0.0333		64.5	40-150				

Matrix Spike Dup (BGH0463-MSD1)			Source: 2308182-01		Prepared & Analyzed: 08/11/23						
Acenaphthene	0.0286	0.00500	mg/kg	0.0333	ND	85.7	31-137	5.86	30		
Anthracene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	10.2	30		
Benzo (a) anthracene	0.0225	0.00500	"	0.0333	ND	67.6	30-120	15.8	30		
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	11.9	30		
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	6.21	30		
Benzo (k) fluoranthene	0.0186	0.00500	"	0.0333	ND	55.7	30-120	8.02	30		
Chrysene	0.0287	0.00500	"	0.0333	ND	86.0	30-120	13.7	30		
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	10.9	30		
Fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	11.2	30		
Fluorene	0.0288	0.00500	"	0.0333	ND	86.4	30-120	17.7	30		
Indeno (1,2,3-cd) pyrene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	2.05	30		
Pyrene	0.0309	0.00500	"	0.0333	ND	92.8	35-142	56.7	30		QR-02
1-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.6	15-130	8.28	50		
2-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND	43.6	15-130	18.7	50		
Surrogate: 2-Methylnaphthalene-d10	0.0206		"	0.0333		61.7	40-150				
Surrogate: Fluoranthene-d10	0.0149		"	0.0333		44.8	40-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

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

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

Batch BGH0492 - EPA 3050B

Blank (BGH0492-BLK1)

Prepared: 08/11/23 Analyzed: 08/12/23

Boron ND 0.0100 mg/L

LCS (BGH0492-BS1)

Prepared: 08/11/23 Analyzed: 08/12/23

Boron 5.72 0.0100 mg/L 5.00 114 80-120

Duplicate (BGH0492-DUP1)

Source: 2308161-01

Prepared: 08/11/23 Analyzed: 08/12/23

Boron 1.16 0.0100 mg/L 1.18 2.14 20

Matrix Spike (BGH0492-MS1)

Source: 2308161-01

Prepared: 08/11/23 Analyzed: 08/12/23

Boron 6.88 0.0100 mg/L 5.00 1.18 114 75-125

Matrix Spike Dup (BGH0492-MSD1)

Source: 2308161-01

Prepared: 08/11/23 Analyzed: 08/12/23

Boron 6.95 0.0100 mg/L 5.00 1.18 115 75-125 0.914 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0458 - EPA 3050B

Blank (BGH0458-BLK1)

Prepared & Analyzed: 08/11/23

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

LCS (BGH0458-BS1)

Prepared & Analyzed: 08/11/23

Arsenic	38.5	0.200	mg/kg wet	40.0	96.3	80-120
Barium	38.1	0.400	"	40.0	95.2	80-120
Cadmium	1.91	0.200	"	2.00	95.6	80-120
Copper	38.3	0.400	"	40.0	95.7	80-120
Lead	19.0	0.200	"	20.0	95.2	80-120
Nickel	37.7	0.400	"	40.0	94.2	80-120
Silver	1.86	0.0200	"	2.00	92.9	80-120
Zinc	40.2	0.400	"	40.0	101	80-120

Duplicate (BGH0458-DUP1)

Source: 2308181-01

Prepared & Analyzed: 08/11/23

Arsenic	0.996	0.200	mg/kg dry	1.06	5.99	20	
Barium	39.9	0.400	"	52.9	28.0	20	QR-04
Cadmium	0.117	0.200	"	0.147	22.8	20	QR-01
Copper	1.70	0.400	"	2.10	21.4	20	QR-01
Lead	3.94	0.200	"	4.38	10.5	20	
Nickel	1.37	0.400	"	1.69	21.1	20	QR-01
Silver	0.0120	0.0200	"	0.0194	47.1	20	QR-01
Zinc	6.28	0.400	"	7.05	11.6	20	
Selenium	ND	0.260	"	ND		200	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0458 - EPA 3050B

Matrix Spike (BGH0458-MS1)		Source: 2308181-01			Prepared & Analyzed: 08/11/23					
Arsenic	20.6	0.200	mg/kg dry	46.2	1.06	42.2	75-125			QM-01
Barium	92.6	0.400	"	46.2	52.9	85.9	75-125			
Cadmium	2.42	0.200	"	2.31	0.147	98.1	75-125			
Copper	21.7	0.400	"	46.2	2.10	42.3	75-125			QM-01
Lead	24.9	0.200	"	23.1	4.38	88.8	75-125			
Nickel	21.2	0.400	"	46.2	1.69	42.2	75-125			QM-01
Silver	2.19	0.0200	"	2.31	0.0194	93.7	75-125			
Zinc	27.7	0.400	"	46.2	7.05	44.6	75-125			QM-01

Matrix Spike Dup (BGH0458-MSD1)		Source: 2308181-01			Prepared & Analyzed: 08/11/23					
Arsenic	21.4	0.200	mg/kg dry	46.2	1.06	44.0	75-125	3.91	25	QM-01
Barium	101	0.400	"	46.2	52.9	105	75-125	9.07	25	
Cadmium	2.59	0.200	"	2.31	0.147	106	75-125	7.07	25	
Copper	22.3	0.400	"	46.2	2.10	43.7	75-125	2.84	25	QM-01
Lead	26.9	0.200	"	23.1	4.38	97.4	75-125	7.65	25	
Nickel	21.8	0.400	"	46.2	1.69	43.4	75-125	2.61	25	QM-01
Silver	2.35	0.0200	"	2.31	0.0194	101	75-125	7.24	25	
Zinc	28.3	0.400	"	46.2	7.05	46.0	75-125	2.38	25	QM-01

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/16/23 09:42

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGH0461 - 3060A Mod

Blank (BGH0461-BLK1)

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0461-BS1)

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.2 80-120

Duplicate (BGH0461-DUP1)

Source: 2308180-01

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0461-MS1)

Source: 2308180-01

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent 26.0 0.30 mg/kg dry 27.8 ND 93.4 75-125

Matrix Spike Dup (BGH0461-MSD1)

Source: 2308180-01

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent 26.3 0.30 mg/kg dry 27.8 ND 94.6 75-125 1.28 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

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

Summit Scientific

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

Batch BGH0454 - General Preparation

Blank (BGH0454-BLK1)

Prepared: 08/10/23 Analyzed: 08/11/23

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

LCS (BGH0454-BS1)

Prepared: 08/10/23 Analyzed: 08/11/23

Calcium	4.46	0.0500	mg/L wet	5.00	89.2	70-130
Magnesium	5.61	0.0500	"	5.00	112	70-130
Sodium	5.39	0.0500	"	5.00	108	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

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

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

Batch BGH0489 - General Preparation

Duplicate (BGH0489-DUP1)		Source: 2308180-01		Prepared: 08/11/23 Analyzed: 08/14/23						
% Solids	89.6		%		89.8			0.228	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

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

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

Batch BGH0502 - General Preparation

Blank (BGH0502-BLK1)

Prepared & Analyzed: 08/11/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0502-BS1)

Prepared & Analyzed: 08/11/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGH0502-DUP1)

Source: 2308188-01

Prepared & Analyzed: 08/11/23

Specific Conductance (EC) 0.326 0.0100 mmhos/cm 0.331 1.58 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

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

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

Batch BGH0501 - General Preparation

LCS (BGH0501-BS1)

Prepared & Analyzed: 08/11/23

pH	9.02	pH Units	9.18	98.3	95-105
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Duplicate (BGH0501-DUP1)

Source: 2308188-01

Prepared & Analyzed: 08/11/23

pH	8.18	pH Units	8.03	1.85	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/16/23 09:42

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 24, 2023

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - WPF III
Work Order #2308291

Enclosed are the results of analyses for samples received by Summit Scientific on 08/14/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	2308291-01	Water	08/11/23 09:10	08/14/23 16:30
STOCK02	2308291-02	Soil	08/11/23 10:05	08/14/23 16:30
WCS01	2308291-03	Soil	08/11/23 10:35	08/14/23 16:30
B02@12'	2308291-04	Soil	08/11/23 11:25	08/14/23 16:30
N03@10'	2308291-05	Soil	08/11/23 09:20	08/14/23 16:30
BKG01@10'	2308291-06	Soil	08/11/23 00:00	08/14/23 16:30
BKG02@10'	2308291-07	Soil	08/11/23 00:00	08/14/23 16:30
N04@10'	2308291-08	Soil	08/11/23 12:35	08/14/23 16:30
WCS03	2308291-09	Soil	08/11/23 12:40	08/14/23 16:30
W01@10'	2308291-10	Soil	08/11/23 14:00	08/14/23 16:30

Summit Scientific

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

Send Data To:		Send Invoice To:
Client: Fremont Environmental Inc.	Project Manager: Paul Henehan	Company: Noble Energy Inc.
Address: 8305 6th Steet	E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG, ChrisL, StanG, etc.	Project Name/Location: WPF III
City/State/Zip: Wellington, CO, 80549	@fremontenv.com	AFE#:
Phone: (970) 213-7488	Project Name: WPF III	PO/Billing Codes:
Sampler Name: Chris Lattes (chrisl@fremontenv.com)	Project Number:	Contact: Dan Peterson

					Preservative				Matrix		Analysis Requested										Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TPH (GRO/DRO/ORO)	BTEX, TMB's, Naphtlene	PAH's	pH, EC, SAR, Boron	Table 915 Metals	TDS, Chloride, Sulfate		HOLD	
1	GW81	8/11/23	9:10	4	3		1		X					X				X			
2	ST02K02	8/11/23	10:05	2			X			X										X	
3	WCS01	8/11/23	10:35	2			X			X			X	X	X	X	X				
4	B02 @ 12'	8/11/23	11:25	2			X			X			X	X	X	X	X				
5	N03 @ 10'	8/14/23	9:20	2			X			X			X	X	X	X	X				
6	BK601 @ 10'	8/14/23	—	1			X			X						X	X				
7	BK602 @ 10'	8/14/23	—	1			X			X						X	X				
8	N04 @ 10'	8/14/23	12:35	2			X			X			X	X	X	X	X				
9	WCS03	8/14/23	12:40	2			X			X			X	X	X	X	X				
10	W01 @ 10'	8/14/23	14:00	2			X			X			X	X	X	X	X				
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>Chris Lattes</u>	Date/Time: <u>8/14/23 14:40</u>	Received by: <u>S2</u>	Date/Time: <u>8/14/23 14:40</u>	TAT Business Days	Field DO	Notes: Excavation	
				Same Day	X		Field EC
Relinquished by: <u>S2</u>	Date/Time: <u>8/14/23 1030</u>	Received by: <u>Dell</u>	Date/Time: <u>8/14/23 1030</u>	1 Day			Field ORP
				2 Days			Field pH
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days			Field Temp.
				Standard		Field Turb.	
Temperature Upon Receipt: <u>10.5</u>	Corrected Temperature: <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>				

S₂

Sample Receipt Checklist

S2 Work Order# 2308291Client: FremontClient Project ID: WPF IIIShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #: ☐

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

Matrix (Check all that apply)

Air ☐Soil/Solid ☐Water ☒Other ☐

Temp (°C)

10.5

Thermometer #

1

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

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

JS

8/14/23

Custodian Printed Name

Date/Time

4666



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/24/23 11:04

GW01
2308291-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/11/23 09:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	49	1.0	ug/l	1	BGH0565	08/14/23	08/15/23	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **08/11/23 09:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	11.8	88.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.7	103 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **08/11/23 09:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	190	12.0	mg/L	200	BGH0583	08/15/23	08/15/23	EPA 300.0	
Sulfate	2290	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **08/11/23 09:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2510	10.0	mg/L	1	BGH0584	08/15/23	08/15/23	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/24/23 11:04

STOCK02
2308291-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/11/23 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0660	08/16/23	08/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/11/23 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0585	146 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0411	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/11/23 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0661	08/16/23	08/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/11/23 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.1	129 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

STOCK02
2308291-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/11/23 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGH0689	08/17/23	08/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/11/23 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0260	78.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0201	60.4 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

WCS01
2308291-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.0086	0.0020	mg/kg	1	BGH0561	08/14/23	08/15/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.17	0.0050	"	"	"	"	"	"	
Xylenes (total)	3.5	0.10	"	10	"	"	"	"	
1,2,4-Trimethylbenzene	4.3	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.25	0.0050	"	1	"	"	"	"	
Naphthalene	0.029	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	500	5.0	"	10	"	"	"	"	

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0424	106 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.118	295 %	50-150		"	"	"	"	S-02
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0920	230 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0562	08/14/23	08/15/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	15.0	120 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

WCS01
2308291-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGH0576	08/15/23	08/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0871	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.115	0.00500	"	"	"	"	"	"	

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0386	116 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0209	62.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.195	0.0100	mg/L	1	BGH0573	08/15/23	08/16/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

WCS01
2308291-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.13	0.200	mg/kg dry	1	BGH0566	08/15/23	08/16/23	EPA 6020B
Barium	141	0.400	"	"	"	"	"	"
Cadmium	0.436	0.200	"	"	"	"	"	"
Copper	1.03	0.400	"	"	"	"	"	"
Lead	7.91	0.200	"	"	"	"	"	"
Nickel	2.24	0.400	"	"	"	"	"	"
Silver	0.0403	0.0200	"	"	"	"	"	"
Zinc	8.73	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0570	08/15/23	08/15/23	EPA 7196A	

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

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.0	0.0579	mg/L dry	1	BGH0563	08/14/23	08/16/23	EPA 6020B	
Magnesium	4.69	0.0579	"	"	"	"	"	"	
Sodium	32.7	0.0579	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.49	0.00100	units	1	BGH0647	08/16/23	08/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/11/23 10:35**

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

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

WCS01
2308291-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.3	%	1	BGH0572	08/15/23	08/15/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.811	0.0100	mmhos/cm	1	BGH0600	08/15/23	08/15/23	EPA 120.1	

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

Date Sampled: **08/11/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BGH0599	08/15/23	08/15/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/24/23 11:04

B02@12'
2308291-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0561	08/14/23	08/15/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0436	109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0562	08/14/23	08/15/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.6	117 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

B02@12'
2308291-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0576	08/15/23	08/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0136	40.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.318	0.0100	mg/L	1	BGH0573	08/15/23	08/16/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/11/23 11:25**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

B02@12'
2308291-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.14	0.200	mg/kg dry	1	BGH0566	08/15/23	08/16/23	EPA 6020B
Barium	24.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	ND	0.400	"	"	"	"	"	"
Lead	4.16	0.200	"	"	"	"	"	"
Nickel	1.92	0.400	"	"	"	"	"	"
Silver	0.0207	0.0200	"	"	"	"	"	"
Zinc	6.54	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0570	08/15/23	08/15/23	EPA 7196A	

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

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.8	0.0600	mg/L dry	1	BGH0563	08/14/23	08/16/23	EPA 6020B	
Magnesium	6.02	0.0600	"	"	"	"	"	"	
Sodium	33.8	0.0600	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.68	0.00100	units	1	BGH0647	08/16/23	08/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

B02@12'
2308291-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.3		%	1	BGH0572	08/15/23	08/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.95	0.0100	mmhos/cm	1	BGH0600	08/15/23	08/15/23	EPA 120.1	

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

Date Sampled: **08/11/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.49		pH Units	1	BGH0599	08/15/23	08/15/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

N03@10'
2308291-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0561	08/14/23	08/15/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0215	53.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0562	08/14/23	08/15/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

N03@10'
2308291-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0576	08/15/23	08/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0257	77.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0176	52.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.528	0.0100	mg/L	1	BGH0573	08/15/23	08/16/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/11/23 09:20**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

N03@10'
2308291-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.02	0.200	mg/kg dry	1	BGH0566	08/15/23	08/16/23	EPA 6020B
Barium	233	0.400	"	"	"	"	"	"
Cadmium	0.879	0.200	"	"	"	"	"	"
Copper	1.44	0.400	"	"	"	"	"	"
Lead	13.0	0.200	"	"	"	"	"	"
Nickel	2.24	0.400	"	"	"	"	"	"
Silver	0.0962	0.0200	"	"	"	"	"	"
Zinc	11.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0570	08/15/23	08/15/23	EPA 7196A	

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

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.1	0.0716	mg/L dry	1	BGH0563	08/14/23	08/16/23	EPA 6020B	
Magnesium	8.44	0.0716	"	"	"	"	"	"	
Sodium	74.8	0.0716	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.94	0.00100	units	1	BGH0647	08/16/23	08/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/11/23 09:20**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

N03@10'
2308291-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	69.9	%	1	BGH0572	08/15/23	08/15/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.87	0.0100	mmhos/cm	1	BGH0600	08/15/23	08/15/23	EPA 120.1	

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

Date Sampled: **08/11/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.46		pH Units	1	BGH0599	08/15/23	08/15/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

BKG01@10'
2308291-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.439	0.0100	mg/L	1	BGH0573	08/15/23	08/16/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.19	0.200	mg/kg dry	1	BGH0566	08/15/23	08/16/23	EPA 6020B	
Barium	248	0.400	"	"	"	"	"	"	
Cadmium	0.774	0.200	"	"	"	"	"	"	
Copper	1.06	0.400	"	"	"	"	"	"	
Lead	11.5	0.200	"	"	"	"	"	"	
Nickel	2.08	0.400	"	"	"	"	"	"	
Silver	0.0647	0.0200	"	"	"	"	"	"	
Zinc	8.47	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0570	08/15/23	08/15/23	EPA 7196A	

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

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	40.6	0.0716	mg/L dry	1	BGH0563	08/14/23	08/16/23	EPA 6020B	
Magnesium	7.15	0.0716	"	"	"	"	"	"	
Sodium	77.1	0.0716	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

BKG01@10'
2308291-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.93	0.00100	units	1	BGH0647	08/16/23	08/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	69.8		%	1	BGH0572	08/15/23	08/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.50	0.0100	mmhos/cm	1	BGH0600	08/15/23	08/15/23	EPA 120.1	

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

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.49		pH Units	1	BGH0599	08/15/23	08/15/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

BKG02@10'
2308291-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.472	0.0100	mg/L	1	BGH0573	08/15/23	08/16/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.55	0.200	mg/kg dry	1	BGH0566	08/15/23	08/16/23	EPA 6020B	
Barium	327	0.400	"	"	"	"	"	"	
Cadmium	0.857	0.200	"	"	"	"	"	"	
Copper	0.901	0.400	"	"	"	"	"	"	
Lead	12.2	0.200	"	"	"	"	"	"	
Nickel	2.30	0.400	"	"	"	"	"	"	
Silver	0.101	0.0200	"	"	"	"	"	"	
Zinc	8.13	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0570	08/15/23	08/15/23	EPA 7196A	

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

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	41.2	0.0719	mg/L dry	1	BGH0563	08/14/23	08/16/23	EPA 6020B	
Magnesium	10.0	0.0719	"	"	"	"	"	"	
Sodium	119	0.0719	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

BKG02@10'
2308291-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.31	0.00100	units	1	BGH0647	08/16/23	08/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	69.6		%	1	BGH0572	08/15/23	08/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.59	0.0100	mmhos/cm	1	BGH0600	08/15/23	08/15/23	EPA 120.1	

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

Date Sampled: **08/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.47		pH Units	1	BGH0599	08/15/23	08/15/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

N04@10'
2308291-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0561	08/14/23	08/15/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0440	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0562	08/14/23	08/15/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.0	120 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

N04@10'
2308291-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0576	08/15/23	08/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0204	61.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0160	47.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.532	0.0100	mg/L	1	BGH0573	08/15/23	08/16/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/11/23 12:35**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

N04@10'
2308291-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.36	0.200	mg/kg dry	1	BGH0566	08/15/23	08/16/23	EPA 6020B
Barium	247	0.400	"	"	"	"	"	"
Cadmium	0.745	0.200	"	"	"	"	"	"
Copper	0.751	0.400	"	"	"	"	"	"
Lead	10.2	0.200	"	"	"	"	"	"
Nickel	1.92	0.400	"	"	"	"	"	"
Silver	0.0810	0.0200	"	"	"	"	"	"
Zinc	6.75	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0570	08/15/23	08/15/23	EPA 7196A	

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

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.3	0.0680	mg/L dry	1	BGH0563	08/14/23	08/16/23	EPA 6020B	
Magnesium	11.5	0.0680	"	"	"	"	"	"	
Sodium	225	0.0680	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.85	0.00100	units	1	BGH0647	08/16/23	08/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/11/23 12:35**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

N04@10'
2308291-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	73.6	%	1	BGH0572	08/15/23	08/15/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.49	0.0100	mmhos/cm	1	BGH0600	08/15/23	08/15/23	EPA 120.1	

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

Date Sampled: **08/11/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.48		pH Units	1	BGH0599	08/15/23	08/15/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

WCS03
2308291-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.055	0.0020	mg/kg	1	BGH0561	08/14/23	08/15/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.55	0.0050	"	"	"	"	"	"	
Xylenes (total)	3.8	0.010	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	1.4	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.51	0.0050	"	"	"	"	"	"	
Naphthalene	0.081	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	61	0.50	"	"	"	"	"	"	

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0411	103 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0994	249 %	50-150		"	"	"	"	E
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0883	221 %	50-150		"	"	"	"	E

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	150	50	mg/kg	1	BGH0562	08/14/23	08/15/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	15.7	126 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

WCS03
2308291-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0576	08/15/23	08/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.791	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.401	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0332	99.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0265	79.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.441	0.0100	mg/L	1	BGH0573	08/15/23	08/16/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/11/23 12:40**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

WCS03
2308291-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.50	0.200	mg/kg dry	1	BGH0566	08/15/23	08/16/23	EPA 6020B
Barium	232	0.400	"	"	"	"	"	"
Cadmium	0.782	0.200	"	"	"	"	"	"
Copper	1.14	0.400	"	"	"	"	"	"
Lead	10.9	0.200	"	"	"	"	"	"
Nickel	2.06	0.400	"	"	"	"	"	"
Silver	0.0828	0.0200	"	"	"	"	"	"
Zinc	7.42	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0570	08/15/23	08/15/23	EPA 7196A	

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

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.1	0.0676	mg/L dry	1	BGH0563	08/14/23	08/16/23	EPA 6020B	
Magnesium	7.90	0.0676	"	"	"	"	"	"	
Sodium	153	0.0676	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.53	0.00100	units	1	BGH0647	08/16/23	08/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/11/23 12:40**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

WCS03
2308291-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	73.9	%	1	BGH0572	08/15/23	08/15/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.59	0.0100	mmhos/cm	1	BGH0600	08/15/23	08/15/23	EPA 120.1	

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

Date Sampled: **08/11/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BGH0599	08/15/23	08/15/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

W01@10'
2308291-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0561	08/14/23	08/15/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0430	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0562	08/14/23	08/15/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.0	120 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

W01@10'
2308291-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0576	08/15/23	08/16/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0272	81.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	63.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.433	0.0100	mg/L	1	BGH0573	08/15/23	08/16/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/11/23 14:00**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

W01@10'
2308291-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.991	0.200	mg/kg dry	1	BGH0566	08/15/23	08/16/23	EPA 6020B
Barium	232	0.400	"	"	"	"	"	"
Cadmium	0.755	0.200	"	"	"	"	"	"
Copper	1.05	0.400	"	"	"	"	"	"
Lead	10.5	0.200	"	"	"	"	"	"
Nickel	2.26	0.400	"	"	"	"	"	"
Silver	0.0953	0.0200	"	"	"	"	"	"
Zinc	9.54	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0570	08/15/23	08/15/23	EPA 7196A	

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

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.1	0.0740	mg/L dry	1	BGH0563	08/14/23	08/16/23	EPA 6020B	
Magnesium	10.9	0.0740	"	"	"	"	"	"	
Sodium	88.3	0.0740	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.01	0.00100	units	1	BGH0647	08/16/23	08/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/11/23 14:00**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

W01@10'
2308291-10 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	67.5	%	1	BGH0572	08/15/23	08/15/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.83	0.0100	mmhos/cm	1	BGH0600	08/15/23	08/15/23	EPA 120.1	

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

Date Sampled: **08/11/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.46		pH Units	1	BGH0599	08/15/23	08/15/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGH0561 - EPA 5030 Soil MS

Blank (BGH0561-BLK1)

Prepared: 08/14/23 Analyzed: 08/15/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0379		"	0.0400		94.6	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	50-150			

LCS (BGH0561-BS1)

Prepared: 08/14/23 Analyzed: 08/15/23

Benzene	0.108	0.0020	mg/kg	0.100		108	70-130			
Toluene	0.100	0.0050	"	0.100		100	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.255	0.010	"	0.200		127	70-130			
o-Xylene	0.0987	0.0050	"	0.100		98.7	70-130			
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
Naphthalene	0.0928	0.0038	"	0.100		92.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0400		86.0	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.3	50-150			

Matrix Spike (BGH0561-MS1)

Source: 2308283-01

Prepared: 08/14/23 Analyzed: 08/15/23

Benzene	0.115	0.0020	mg/kg	0.100	ND	115	70-130			
Toluene	0.106	0.0050	"	0.100	ND	106	70-130			
Ethylbenzene	0.120	0.0050	"	0.100	ND	120	70-130			
m,p-Xylene	0.246	0.010	"	0.200	ND	123	70-130			
o-Xylene	0.115	0.0050	"	0.100	ND	115	70-130			
1,2,4-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
Naphthalene	0.0974	0.0038	"	0.100	ND	97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0335		"	0.0400		83.8	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGH0561 - EPA 5030 Soil MS

Matrix Spike Dup (BGH0561-MSD1)		Source: 2308283-01		Prepared: 08/14/23 Analyzed: 08/15/23						
Benzene	0.0968	0.0020	mg/kg	0.100	ND	96.8	70-130	17.5	30	
Toluene	0.0864	0.0050	"	0.100	ND	86.4	70-130	20.7	30	
Ethylbenzene	0.0999	0.0050	"	0.100	ND	99.9	70-130	18.0	30	
m,p-Xylene	0.208	0.010	"	0.200	ND	104	70-130	16.8	30	
o-Xylene	0.0972	0.0050	"	0.100	ND	97.2	70-130	17.2	30	
1,2,4-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130	0.439	30	
1,3,5-Trimethylbenzene	0.0802	0.0050	"	0.100	ND	80.2	70-130	29.2	30	
Naphthalene	0.0752	0.0038	"	0.100	ND	75.2	70-130	25.7	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0343		"	0.0400		85.6	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

Batch BGH0565 - EPA 5030 Water MS

Blank (BGH0565-BLK1)		Prepared: 08/14/23 Analyzed: 08/15/23								
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	"							
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	11.2		"	13.3		83.6	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

LCS (BGH0565-BS1)		Prepared: 08/14/23 Analyzed: 08/15/23								
Benzene	40.1	1.0	ug/l	33.3		120	51-132			
Toluene	37.5	1.0	"	33.3		113	51-138			
Ethylbenzene	40.3	1.0	"	33.3		121	58-146			
m,p-Xylene	81.3	2.0	"	66.7		122	57-144			
o-Xylene	37.3	1.0	"	33.3		112	53-146			
Naphthalene	30.0	1.0	"	33.3		90.1	70-130			
1,2,4-Trimethylbenzene	35.2	1.0	"	33.3		106	70-130			
1,3,5-Trimethylbenzene	33.0	1.0	"	33.3		98.9	70-130			
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	12.1		"	13.3		90.8	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.6	21-167			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGH0565 - EPA 5030 Water MS

Matrix Spike (BGH0565-MS1)

Source: 2308291-01

Prepared: 08/14/23 Analyzed: 08/15/23

Benzene	84.6	1.0	ug/l	33.3	49.2	106	34-141				
Toluene	36.4	1.0	"	33.3	ND	109	27-151				
Ethylbenzene	40.0	1.0	"	33.3	ND	120	29-160				
m,p-Xylene	81.2	2.0	"	66.7	ND	122	20-166				
o-Xylene	37.3	1.0	"	33.3	ND	112	33-159				
Naphthalene	31.2	1.0	"	33.3	ND	93.6	70-130				
1,2,4-Trimethylbenzene	35.1	1.0	"	33.3	ND	105	70-130				
1,3,5-Trimethylbenzene	32.2	1.0	"	33.3	ND	96.7	70-130				
Surrogate: 1,2-Dichloroethane-d4	11.8		"	13.3		88.2	23-173				
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170				
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	21-167				

Matrix Spike Dup (BGH0565-MSD1)

Source: 2308291-01

Prepared: 08/14/23 Analyzed: 08/15/23

Benzene	79.0	1.0	ug/l	33.3	49.2	89.6	34-141	6.84	30		
Toluene	32.9	1.0	"	33.3	ND	98.6	27-151	10.2	30		
Ethylbenzene	37.4	1.0	"	33.3	ND	112	29-160	6.85	30		
m,p-Xylene	75.7	2.0	"	66.7	ND	114	20-166	7.01	30		
o-Xylene	35.7	1.0	"	33.3	ND	107	33-159	4.33	30		
Naphthalene	27.8	1.0	"	33.3	ND	83.6	70-130	11.4	30		
1,2,4-Trimethylbenzene	32.2	1.0	"	33.3	ND	96.6	70-130	8.53	30		
1,3,5-Trimethylbenzene	30.5	1.0	"	33.3	ND	91.5	70-130	5.45	30		
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.3		91.8	23-173				
Surrogate: Toluene-d8	13.3		"	13.3		99.5	20-170				
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.2	21-167				

Batch BGH0660 - EPA 5030 Soil MS

Blank (BGH0660-BLK1)

Prepared: 08/16/23 Analyzed: 08/17/23

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0465		"	0.0400		116	50-150				
Surrogate: Toluene-d8	0.0297		"	0.0400		74.3	50-150				

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BGH0660 - EPA 5030 Soil MS

Blank (BGH0660-BLK1)

Prepared: 08/16/23 Analyzed: 08/17/23

Surrogate: 4-Bromofluorobenzene	0.0298		mg/kg	0.0400		74.6	50-150
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LCS (BGH0660-BS1)

Prepared: 08/16/23 Analyzed: 08/17/23

Benzene	0.126	0.0020	mg/kg	0.100		126	70-130
Toluene	0.117	0.0050	"	0.100		117	70-130
Ethylbenzene	0.0959	0.0050	"	0.100		95.9	70-130
m,p-Xylene	0.189	0.010	"	0.200		94.3	70-130
o-Xylene	0.0946	0.0050	"	0.100		94.6	70-130
1,2,4-Trimethylbenzene	0.0905	0.0050	"	0.100		90.5	70-130
1,3,5-Trimethylbenzene	0.0831	0.0050	"	0.100		83.1	70-130
Naphthalene	0.101	0.0038	"	0.100		101	70-130
Surrogate: 1,2-Dichloroethane-d4	0.0574		"	0.0400		144	50-150
Surrogate: Toluene-d8	0.0284		"	0.0400		71.0	50-150
Surrogate: 4-Bromofluorobenzene	0.0329		"	0.0400		82.4	50-150

Matrix Spike (BGH0660-MS1)

Source: 2308291-02

Prepared: 08/16/23 Analyzed: 08/17/23

Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130
Toluene	0.109	0.0050	"	0.100	ND	109	70-130
Ethylbenzene	0.0926	0.0050	"	0.100	ND	92.6	70-130
m,p-Xylene	0.219	0.010	"	0.200	ND	110	70-130
o-Xylene	0.109	0.0050	"	0.100	ND	109	70-130
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130
1,3,5-Trimethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130
Naphthalene	0.109	0.0038	"	0.100	ND	109	70-130
Surrogate: 1,2-Dichloroethane-d4	0.0584		"	0.0400		146	50-150
Surrogate: Toluene-d8	0.0289		"	0.0400		72.3	50-150
Surrogate: 4-Bromofluorobenzene	0.0340		"	0.0400		85.0	50-150

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

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

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

Batch BGH0660 - EPA 5030 Soil MS

Matrix Spike Dup (BGH0660-MSD1)	Source: 2308291-02			Prepared: 08/16/23 Analyzed: 08/17/23						
Benzene	0.102	0.0020	mg/kg	0.100	ND	102	70-130	5.07	30	
Toluene	0.107	0.0050	"	0.100	ND	107	70-130	1.64	30	
Ethylbenzene	0.0970	0.0050	"	0.100	ND	97.0	70-130	4.71	30	
m,p-Xylene	0.214	0.010	"	0.200	ND	107	70-130	2.28	30	
o-Xylene	0.0946	0.0050	"	0.100	ND	94.6	70-130	13.8	30	
1,2,4-Trimethylbenzene	0.0947	0.0050	"	0.100	ND	94.7	70-130	15.0	30	
1,3,5-Trimethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130	2.86	30	
Naphthalene	0.109	0.0038	"	0.100	ND	109	70-130	0.00	30	
Surrogate: 1,2-Dichloroethane-d4	0.0498		"	0.0400		124	50-150			
Surrogate: Toluene-d8	0.0291		"	0.0400		72.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0356		"	0.0400		89.0	50-150			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGH0562 - EPA 3550A

Blank (BGH0562-BLK1)

Prepared: 08/14/23 Analyzed: 08/15/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.6		"	12.5		133	30-150			

LCS (BGH0562-BS1)

Prepared: 08/14/23 Analyzed: 08/15/23

C10-C28 (DRO)	565	50	mg/kg	500		113	70-130			
Surrogate: o-Terphenyl	15.0		"	12.5		120	30-150			

Matrix Spike (BGH0562-MS1)

Source: 2308283-01

Prepared: 08/14/23 Analyzed: 08/15/23

C10-C28 (DRO)	566	50	mg/kg	500	13.8	110	70-130			
Surrogate: o-Terphenyl	16.2		"	12.5		129	30-150			

Matrix Spike Dup (BGH0562-MSD1)

Source: 2308283-01

Prepared: 08/14/23 Analyzed: 08/15/23

C10-C28 (DRO)	616	50	mg/kg	500	13.8	120	70-130	8.45	20	
Surrogate: o-Terphenyl	14.7		"	12.5		118	30-150			

Batch BGH0661 - EPA 3550A

Blank (BGH0661-BLK1)

Prepared & Analyzed: 08/16/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.8		"	12.5		134	30-150			

LCS (BGH0661-BS1)

Prepared & Analyzed: 08/16/23

C10-C28 (DRO)	555	50	mg/kg	500		111	70-130			
Surrogate: o-Terphenyl	15.8		"	12.5		127	30-150			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGH0661 - EPA 3550A

Matrix Spike (BGH0661-MS1)		Source: 2308291-02			Prepared & Analyzed: 08/16/23					
C10-C28 (DRO)	526	50	mg/kg	500	24.4	100	70-130			
Surrogate: o-Terphenyl	14.9		"	12.5		119	30-150			
Matrix Spike Dup (BGH0661-MSD1)		Source: 2308291-02			Prepared & Analyzed: 08/16/23					
C10-C28 (DRO)	501	50	mg/kg	500	24.4	95.4	70-130	4.79	20	
Surrogate: o-Terphenyl	15.7		"	12.5		126	30-150			

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0576 - EPA 5030 Soil MS

Blank (BGH0576-BLK1)

Prepared & Analyzed: 08/15/23

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

Surrogate: 2-Methylnaphthalene-d10	0.0236	"	0.0333	70.7	40-150
Surrogate: Fluoranthene-d10	0.0253	"	0.0333	76.0	40-150

LCS (BGH0576-BS1)

Prepared & Analyzed: 08/15/23

Acenaphthene	0.0275	0.00500	mg/kg	0.0333	82.6	31-137
Anthracene	0.0323	0.00500	"	0.0333	96.8	30-120
Benzo (a) anthracene	0.0288	0.00500	"	0.0333	86.3	30-120
Benzo (a) pyrene	0.0286	0.00500	"	0.0333	85.7	30-120
Benzo (b) fluoranthene	0.0289	0.00500	"	0.0333	86.8	30-120
Benzo (k) fluoranthene	0.0316	0.00500	"	0.0333	94.7	30-120
Chrysene	0.0334	0.00500	"	0.0333	100	30-120
Dibenz (a,h) anthracene	0.0251	0.00500	"	0.0333	75.2	30-120
Fluoranthene	0.0315	0.00500	"	0.0333	94.4	30-120
Fluorene	0.0142	0.00500	"	0.0333	42.7	30-120
Indeno (1,2,3-cd) pyrene	0.0355	0.00500	"	0.0333	107	30-120
Pyrene	0.0350	0.00500	"	0.0333	105	35-142
1-Methylnaphthalene	0.0394	0.00500	"	0.0333	118	35-142
2-Methylnaphthalene	0.0405	0.00500	"	0.0333	122	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0206	"	0.0333	61.7	40-150
Surrogate: Fluoranthene-d10	0.0315	"	0.0333	94.4	40-150

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0576 - EPA 5030 Soil MS

Matrix Spike (BGH0576-MS1)

Source: 2308248-21

Prepared & Analyzed: 08/15/23

Acenaphthene	0.0192	0.00500	mg/kg	0.0333	ND	57.5	31-137		
Anthracene	0.0220	0.00500	"	0.0333	ND	66.1	30-120		
Benzo (a) anthracene	0.0209	0.00500	"	0.0333	ND	62.8	30-120		
Benzo (a) pyrene	0.0173	0.00500	"	0.0333	ND	52.0	30-120		
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.4	30-120		
Benzo (k) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	30-120		
Chrysene	0.0215	0.00500	"	0.0333	ND	64.5	30-120		
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.3	30-120		
Fluoranthene	0.0220	0.00500	"	0.0333	ND	66.0	30-120		
Fluorene	0.0141	0.00500	"	0.0333	ND	42.2	30-120		
Indeno (1,2,3-cd) pyrene	0.0210	0.00500	"	0.0333	ND	63.0	30-120		
Pyrene	0.0226	0.00500	"	0.0333	ND	67.9	35-142		
1-Methylnaphthalene	0.0242	0.00500	"	0.0333	ND	72.7	15-130		
2-Methylnaphthalene	0.0243	0.00500	"	0.0333	ND	72.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0370		"	0.0333		111	40-150		
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.6	40-150		

Matrix Spike Dup (BGH0576-MSD1)

Source: 2308248-21

Prepared & Analyzed: 08/15/23

Acenaphthene	0.0152	0.00500	mg/kg	0.0333	ND	45.7	31-137	22.9	30
Anthracene	0.0182	0.00500	"	0.0333	ND	54.7	30-120	18.8	30
Benzo (a) anthracene	0.0178	0.00500	"	0.0333	ND	53.5	30-120	15.9	30
Benzo (a) pyrene	0.0138	0.00500	"	0.0333	ND	41.4	30-120	22.7	30
Benzo (b) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.5	30-120	3.68	30
Benzo (k) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.0	30-120	15.4	30
Chrysene	0.0187	0.00500	"	0.0333	ND	56.1	30-120	14.0	30
Dibenz (a,h) anthracene	0.0139	0.00500	"	0.0333	ND	41.8	30-120	3.62	30
Fluoranthene	0.0177	0.00500	"	0.0333	ND	53.2	30-120	21.5	30
Fluorene	0.0142	0.00500	"	0.0333	ND	42.7	30-120	1.24	30
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333	ND	55.5	30-120	12.7	30
Pyrene	0.0190	0.00500	"	0.0333	ND	56.9	35-142	17.6	30
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.9	15-130	43.2	50
2-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.2	15-130	36.9	50
Surrogate: 2-Methylnaphthalene-d10	0.0246		"	0.0333		73.9	40-150		
Surrogate: Fluoranthene-d10	0.0151		"	0.0333		45.3	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0689 - EPA 5030 Soil MS

Blank (BGH0689-BLK1)

Prepared & Analyzed: 08/17/23

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0308		"	0.0333		92.4		40-150			
Surrogate: Fluoranthene-d10	0.0267		"	0.0333		80.0		40-150			

LCS (BGH0689-BS1)

Prepared & Analyzed: 08/17/23

Acenaphthene	0.0307	0.00500	mg/kg	0.0333		92.0		31-137			
Anthracene	0.0320	0.00500	"	0.0333		95.9		30-120			
Benzo (a) anthracene	0.0306	0.00500	"	0.0333		91.7		30-120			
Benzo (a) pyrene	0.0298	0.00500	"	0.0333		89.5		30-120			
Benzo (b) fluoranthene	0.0319	0.00500	"	0.0333		95.8		30-120			
Benzo (k) fluoranthene	0.0317	0.00500	"	0.0333		95.1		30-120			
Chrysene	0.0308	0.00500	"	0.0333		92.3		30-120			
Dibenz (a,h) anthracene	0.0295	0.00500	"	0.0333		88.5		30-120			
Fluoranthene	0.0314	0.00500	"	0.0333		94.1		30-120			
Fluorene	0.0310	0.00500	"	0.0333		93.0		30-120			
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333		67.4		30-120			
Pyrene	0.0329	0.00500	"	0.0333		98.8		35-142			
1-Methylnaphthalene	0.0280	0.00500	"	0.0333		84.1		35-142			
2-Methylnaphthalene	0.0334	0.00500	"	0.0333		100		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0277		"	0.0333		83.2		40-150			
Surrogate: Fluoranthene-d10	0.0321		"	0.0333		96.2		40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0689 - EPA 5030 Soil MS

Matrix Spike (BGH0689-MS1)

Source: 2308291-02

Prepared & Analyzed: 08/17/23

Acenaphthene	0.0185	0.00500	mg/kg	0.0333	ND	55.5	31-137				
Anthracene	0.0166	0.00500	"	0.0333	ND	49.7	30-120				
Benzo (a) anthracene	0.0218	0.00500	"	0.0333	ND	65.4	30-120				
Benzo (a) pyrene	0.0166	0.00500	"	0.0333	ND	49.7	30-120				
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.3	30-120				
Benzo (k) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.3	30-120				
Chrysene	0.0217	0.00500	"	0.0333	ND	65.1	30-120				
Dibenz (a,h) anthracene	0.0142	0.00500	"	0.0333	ND	42.7	30-120				
Fluoranthene	0.0181	0.00500	"	0.0333	ND	54.2	30-120				
Fluorene	0.0174	0.00500	"	0.0333	ND	52.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120				
Pyrene	0.0190	0.00500	"	0.0333	ND	57.0	35-142				
1-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.0	15-130				
2-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.6	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0183		"	0.0333		54.9	40-150				
Surrogate: Fluoranthene-d10	0.0161		"	0.0333		48.2	40-150				

Matrix Spike Dup (BGH0689-MSD1)

Source: 2308291-02

Prepared & Analyzed: 08/17/23

Acenaphthene	0.0150	0.00500	mg/kg	0.0333	ND	45.1	31-137	20.8	30
Anthracene	0.0144	0.00500	"	0.0333	ND	43.2	30-120	14.0	30
Benzo (a) anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	13.2	30
Benzo (a) pyrene	0.0161	0.00500	"	0.0333	ND	48.4	30-120	2.74	30
Benzo (b) fluoranthene	0.0138	0.00500	"	0.0333	ND	41.3	30-120	23.4	30
Benzo (k) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	3.80	30
Chrysene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	20.9	30
Dibenz (a,h) anthracene	0.0154	0.00500	"	0.0333	ND	46.1	30-120	7.75	30
Fluoranthene	0.0138	0.00500	"	0.0333	ND	41.4	30-120	26.7	30
Fluorene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	16.1	30
Indeno (1,2,3-cd) pyrene	0.0134	0.00500	"	0.0333	ND	40.1	30-120	16.0	30
Pyrene	0.0164	0.00500	"	0.0333	ND	49.3	35-142	14.5	30
1-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.4	15-130	5.57	50
2-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.8	15-130	8.70	50
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		48.0	40-150		
Surrogate: Fluoranthene-d10	0.0149		"	0.0333		44.8	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

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

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

Batch BGH0573 - EPA 3050B

Blank (BGH0573-BLK1)

Prepared: 08/15/23 Analyzed: 08/16/23

Boron ND 0.0100 mg/L

LCS (BGH0573-BS1)

Prepared: 08/15/23 Analyzed: 08/16/23

Boron 5.70 0.0100 mg/L 5.00 114 80-120

Duplicate (BGH0573-DUP1)

Source: 2308291-03

Prepared: 08/15/23 Analyzed: 08/16/23

Boron 0.173 0.0100 mg/L 0.195 11.8 20

Matrix Spike (BGH0573-MS1)

Source: 2308291-03

Prepared: 08/15/23 Analyzed: 08/16/23

Boron 6.57 0.0100 mg/L 5.00 0.195 128 75-125 QM-07

Matrix Spike Dup (BGH0573-MSD1)

Source: 2308291-03

Prepared: 08/15/23 Analyzed: 08/16/23

Boron 7.16 0.0100 mg/L 5.00 0.195 139 75-125 8.61 25 QM-07

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0566 - EPA 3050B

Blank (BGH0566-BLK1)

Prepared: 08/15/23 Analyzed: 08/16/23

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

LCS (BGH0566-BS1)

Prepared: 08/15/23 Analyzed: 08/16/23

Arsenic	39.8	0.200	mg/kg wet	40.0	99.4	80-120
Barium	36.8	0.400	"	40.0	92.1	80-120
Cadmium	1.87	0.200	"	2.00	93.5	80-120
Copper	39.2	0.400	"	40.0	98.1	80-120
Lead	18.5	0.200	"	20.0	92.4	80-120
Nickel	39.3	0.400	"	40.0	98.2	80-120
Silver	1.80	0.0200	"	2.00	90.1	80-120
Zinc	40.9	0.400	"	40.0	102	80-120

Duplicate (BGH0566-DUP1)

Source: 2308283-01

Prepared: 08/15/23 Analyzed: 08/16/23

Arsenic	1.17	0.200	mg/kg dry	1.25	6.39	20	
Barium	133	0.400	"	162	19.8	20	
Cadmium	0.385	0.200	"	0.370	3.92	20	
Copper	1.96	0.400	"	2.20	11.6	20	
Lead	8.50	0.200	"	10.5	20.9	20	QR-01
Nickel	2.47	0.400	"	2.65	6.86	20	
Silver	0.0469	0.0200	"	0.0674	35.7	20	QR-01
Zinc	9.90	0.400	"	10.4	4.59	20	
Selenium	ND	0.260	"	ND		200	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0566 - EPA 3050B

Matrix Spike (BGH0566-MS1)		Source: 2308283-01			Prepared: 08/15/23		Analyzed: 08/16/23			
Arsenic	12.9	0.200	mg/kg dry	51.0	1.25	22.8	75-125			QM-01
Barium	201	0.400	"	51.0	162	75.3	75-125			
Cadmium	2.80	0.200	"	2.55	0.370	95.1	75-125			
Copper	13.8	0.400	"	51.0	2.20	22.7	75-125			QM-01
Lead	32.4	0.200	"	25.5	10.5	85.8	75-125			
Nickel	14.3	0.400	"	51.0	2.65	22.8	75-125			QM-01
Silver	2.33	0.0200	"	2.55	0.0674	88.5	75-125			
Zinc	22.7	0.400	"	51.0	10.4	24.2	75-125			QM-01

Matrix Spike Dup (BGH0566-MSD1)		Source: 2308283-01			Prepared: 08/15/23		Analyzed: 08/16/23			
Arsenic	12.9	0.200	mg/kg dry	51.0	1.25	22.9	75-125	0.166	25	QM-01
Barium	185	0.400	"	51.0	162	44.4	75-125	8.19	25	QM-01
Cadmium	2.74	0.200	"	2.55	0.370	92.9	75-125	2.06	25	
Copper	13.8	0.400	"	51.0	2.20	22.8	75-125	0.336	25	QM-01
Lead	30.0	0.200	"	25.5	10.5	76.3	75-125	7.76	25	
Nickel	14.6	0.400	"	51.0	2.65	23.5	75-125	2.49	25	QM-01
Silver	2.19	0.0200	"	2.55	0.0674	83.3	75-125	5.92	25	
Zinc	22.9	0.400	"	51.0	10.4	24.7	75-125	0.990	25	QM-01

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGH0570 - 3060A Mod

Blank (BGH0570-BLK1)

Prepared & Analyzed: 08/15/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0570-BS1)

Prepared & Analyzed: 08/15/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.4 80-120

Duplicate (BGH0570-DUP1)

Source: 2308283-01

Prepared & Analyzed: 08/15/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0570-MS1)

Source: 2308283-01

Prepared & Analyzed: 08/15/23

Chromium, Hexavalent 29.7 0.30 mg/kg dry 31.9 ND 93.0 75-125

Matrix Spike Dup (BGH0570-MSD1)

Source: 2308283-01

Prepared & Analyzed: 08/15/23

Chromium, Hexavalent 29.9 0.30 mg/kg dry 31.9 ND 93.8 75-125 0.857 20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

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

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

Batch BGH0563 - General Preparation

Blank (BGH0563-BLK1)

Prepared: 08/14/23 Analyzed: 08/15/23

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

LCS (BGH0563-BS1)

Prepared: 08/14/23 Analyzed: 08/15/23

Calcium	4.64	0.0500	mg/L wet	5.00	92.7	70-130
Magnesium	5.27	0.0500	"	5.00	105	70-130
Sodium	5.42	0.0500	"	5.00	108	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BGH0583 - General Preparation

Blank (BGH0583-BLK1)

Prepared & Analyzed: 08/15/23

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BGH0583-BS1)

Prepared & Analyzed: 08/15/23

Chloride	3.16	0.0600	mg/L	3.00	105	90-110
Sulfate	16.0	0.300	"	15.0	107	90-110

Duplicate (BGH0583-DUP1)

Source: 2308291-01

Prepared & Analyzed: 08/15/23

Chloride	179	12.0	mg/L	190	6.08	20
Sulfate	2400	60.0	"	2290	4.73	20

Matrix Spike (BGH0583-MS1)

Source: 2308291-01

Prepared & Analyzed: 08/15/23

Chloride	772	12.0	mg/L	600	190	97.0	80-120
Sulfate	5130	60.0	"	3000	2290	94.7	80-120

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]

Project Manager: Paul Henchan

Reported:

08/24/23 11:04

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

Summit Scientific

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

Batch BGH0572 - General Preparation

Duplicate (BGH0572-DUP1)		Source: 2308291-03			Prepared & Analyzed: 08/15/23						
% Solids	76.4		%		86.3		12.2		20		

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BGH0584 - General Preparation

Blank (BGH0584-BLK1)

Prepared & Analyzed: 08/15/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGH0584-DUP1)

Source: 2308291-01

Prepared & Analyzed: 08/15/23

Total Dissolved Solids 2500 10.0 mg/L 2510 0.200 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

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

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

Batch BGH0600 - General Preparation

Blank (BGH0600-BLK1)

Prepared & Analyzed: 08/15/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0600-BS1)

Prepared & Analyzed: 08/15/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGH0600-DUP1)

Source: 2308291-03

Prepared & Analyzed: 08/15/23

Specific Conductance (EC) 0.798 0.0100 mmhos/cm 0.811 1.53 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

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

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

Batch BGH0599 - General Preparation

LCS (BGH0599-BS1)

Prepared & Analyzed: 08/15/23

pH	9.08	pH Units	9.18	98.9	95-105
----	------	----------	------	------	--------

Duplicate (BGH0599-DUP1)

Source: 2308291-03

Prepared & Analyzed: 08/15/23

pH	8.12	pH Units	8.12	0.00	20
----	------	----------	------	------	----

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 11:04

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

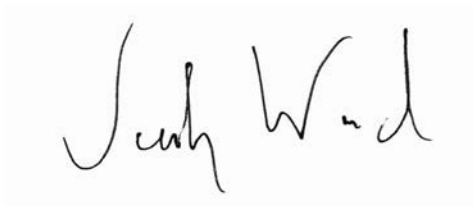
303.277.9310

August 24, 2023

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - WPF III
Work Order #2308432

Enclosed are the results of analyses for samples received by Summit Scientific on 08/18/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B03@12'	2308432-01	Soil	08/15/23 14:40	08/18/23 16:30
S01@9'	2308432-02	Soil	08/17/23 12:10	08/18/23 16:30
S03@10'	2308432-04	Soil	08/18/23 12:00	08/18/23 16:30
B04@11'	2308432-05	Soil	08/18/23 13:05	08/18/23 16:30
W02@9'	2308432-06	Soil	08/18/23 14:30	08/18/23 16:30

Summit Scientific

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

Client: Fremont Environmental Inc.		Send Data To:		Send Invoice To:	
Address: 8305 6th Steet		Project Manager: Paul Henehan		Company: Noble Energy Inc.	
City/State/Zip: Wellington, CO, 80549		E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG, ChrisL, StanG, etc.		Project Name/Location: WPF III	
Phone: (970) 213-7488		@fremontenv.com		AFE#:	
Sampler Name: Chris Lattes (chrisl@fremontenv.com)		Project Name: WPF III		PO/Billing Codes:	
		Project Number:		Contact: Dan Peterson	

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TPH (GRODRO/ORO)	BTEX, TMB's, Naphthalene	PAH's	pH, EC, SAR, Boron	Table 915 Metals	TDS, Chloride, Sulfate		HOLD		
1	303 @ 12'	8/15/23	14:40	2			X			X			X	X	X	X	X					
2	501 @ 9'	8/17/23	12:10	2			X			X			X	X	X	X	X					
3	502 @ 10'	8/18/23	8:40	2			X			X			X	X	X	X	X			X	CL - HOLD	
4	503 @ 10'	8/18/23	12:00	2			X			X			X	X	X	X	X					
5	304 @ 11'	8/18/23	13:05	2			X			X			X	X	X	X	X					
6	W92 @ 9'	8/18/23	14:30	2			X			X			X	X	X	X	X					
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by:	Date/Time: 8/18/23 15:00	Received by:	Date/Time: 8/18/23 15:50	TAT Business Days	Field DO	Notes: Excavation
Relinquished by:	Date/Time: 8/18/23 16:30	Received by:	Date/Time: 8/18/23 16:30	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 10.1		Corrected Temperature 6		IR gun #: 1		HNO3 lot #:

S₂

Sample Receipt Checklist

S2 Work Order# 2308432Client: Fremont Client Project ID: WPF IIIShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____

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

Matrix (Check all that apply) Air ☐ Soil ☒ Solid ☐ Water ☐ Other ☐Temp (°C) 10.1Thermometer # 0

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

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

 Custodian Printed Name

8/18/23
 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

B03@12'
2308432-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0773	08/18/23	08/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0500	125 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	96.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0775	08/18/23	08/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.3	90.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

B03@12'
2308432-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0799	08/21/23	08/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	48.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0141	42.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.332	0.0100	mg/L	1	BGH0796	08/21/23	08/22/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/15/23 14:40**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

B03@12'
2308432-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.58	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B
Barium	68.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.43	0.400	"	"	"	"	"	"
Lead	5.54	0.200	"	"	"	"	"	"
Nickel	4.81	0.400	"	"	"	"	"	"
Silver	0.0224	0.0200	"	"	"	"	"	"
Zinc	14.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0810	08/21/23	08/21/23	EPA 7196A	

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

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.3	0.0609	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
Magnesium	18.6	0.0609	"	"	"	"	"	"	
Sodium	151	0.0609	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.48	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

B03@12'
2308432-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	82.1			%	1	BGH0785	08/19/23	08/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.20	0.0100		mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.92			pH Units	1	BGH0812	08/21/23	08/21/23	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 - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/24/23 10:39

S01@9'
2308432-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.038	0.0020	mg/kg	1	BGH0773	08/18/23	08/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0068	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.041	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: **08/17/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0550	137 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0372	92.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0775	08/18/23	08/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.8	86.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

S01@9'
2308432-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGH0799	08/21/23	08/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0154	46.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.197	0.0100	mg/L	1	BGH0796	08/21/23	08/22/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

S01@9'
2308432-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.21	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B
Barium	144	0.400	"	"	"	"	"	"
Cadmium	0.208	0.200	"	"	"	"	"	"
Copper	2.01	0.400	"	"	"	"	"	"
Lead	5.67	0.200	"	"	"	"	"	"
Nickel	2.15	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.0	0.400	"	"	"	"	"	"
Selenium	0.517	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0810	08/21/23	08/21/23	EPA 7196A	

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

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.1	0.0640	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
Magnesium	4.74	0.0640	"	"	"	"	"	"	
Sodium	100	0.0640	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.95	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/17/23 12:10**

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

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Fremont Environmental
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

S01@9'
2308432-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.2	%	1	BGH0785	08/19/23	08/19/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.524	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BGH0812	08/21/23	08/21/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

S03@10'
2308432-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2.0	0.020	mg/kg	10	BGH0773	08/18/23	08/18/23	EPA 8260B	
Toluene	ND	0.0050	"	1	"	"	"	"	
Ethylbenzene	2.8	0.050	"	10	"	"	"	"	
Xylenes (total)	18	0.10	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	6.6	0.050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	2.9	0.050	"	"	"	"	"	"	
Naphthalene	0.14	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	390	5.0	"	10	"	"	"	"	

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0650	163 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8	0.0343	85.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0681	170 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	140	50	mg/kg	1	BGH0775	08/18/23	08/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.80	78.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

S03@10'
2308432-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0799	08/21/23	08/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0156	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.130	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.341	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0234	70.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.294	0.0100	mg/L	1	BGH0796	08/21/23	08/22/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/18/23 12:00**

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

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

S03@10'
2308432-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.34	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B
Barium	64.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.55	0.400	"	"	"	"	"	"
Lead	6.15	0.200	"	"	"	"	"	"
Nickel	4.62	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	16.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0810	08/21/23	08/21/23	EPA 7196A	

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

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.7	0.0714	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
Magnesium	10.7	0.0714	"	"	"	"	"	"	
Sodium	121	0.0714	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.28	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: [none]
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Reported:
08/24/23 10:39

S03@10'
2308432-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	70.0		%	1	BGH0785	08/19/23	08/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.622	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BGH0812	08/21/23	08/21/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

B04@11'
2308432-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0773	08/18/23	08/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0541	135 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0377	94.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0437	109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0775	08/18/23	08/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.2	121 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

B04@11'
2308432-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0799	08/21/23	08/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0145	43.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0137	41.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.261	0.0100	mg/L	1	BGH0796	08/21/23	08/22/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

B04@11'
2308432-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.50	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B
Barium	193	0.400	"	"	"	"	"	"
Cadmium	0.504	0.200	"	"	"	"	"	"
Copper	6.09	0.400	"	"	"	"	"	"
Lead	10.8	0.200	"	"	"	"	"	"
Nickel	4.58	0.400	"	"	"	"	"	"
Silver	0.0430	0.0200	"	"	"	"	"	"
Zinc	20.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0810	08/21/23	08/21/23	EPA 7196A	

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

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	116	0.0597	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
Magnesium	46.1	0.0597	"	"	"	"	"	"	
Sodium	176	0.0597	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.50	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

B04@11'
2308432-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.7	%	1	BGH0785	08/19/23	08/19/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.71	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BGH0812	08/21/23	08/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

W02@9'
2308432-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0773	08/18/23	08/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.97	0.050	"	10	"	"	"	"	
Xylenes (total)	2.6	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	3.9	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.68	0.050	"	"	"	"	"	"	
Naphthalene	0.083	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	310	5.0	"	10	"	"	"	"	

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0500	125 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0357	89.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0330	82.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	260	50	mg/kg	1	BGH0775	08/18/23	08/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	18.6	149 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

W02@9'
2308432-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0799	08/21/23	08/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0216	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.197	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.114	0.00500	"	"	"	"	"	"	

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0157	47.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.627	0.0100	mg/L	1	BGH0796	08/21/23	08/22/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/18/23 14:30**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

W02@9'
2308432-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.12	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B
Barium	58.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.89	0.400	"	"	"	"	"	"
Lead	4.21	0.200	"	"	"	"	"	"
Nickel	2.40	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0810	08/21/23	08/21/23	EPA 7196A	

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

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	120	0.0711	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
Magnesium	15.3	0.0711	"	"	"	"	"	"	
Sodium	284	0.0711	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.49	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

W02@9'
2308432-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	70.3		%	1	BGH0785	08/19/23	08/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BGH0812	08/21/23	08/21/23	EPA 9045D	

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PO Box 1289
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGH0773 - EPA 5030 Soil MS

Blank (BGH0773-BLK1)

Prepared & Analyzed: 08/18/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0480		"	0.0400		120	50-150			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

LCS (BGH0773-BS1)

Prepared: 08/18/23 Analyzed: 08/19/23

Benzene	0.141	0.0020	mg/kg	0.150		93.7	70-130			
Toluene	0.147	0.0050	"	0.150		98.1	70-130			
Ethylbenzene	0.158	0.0050	"	0.150		105	70-130			
m,p-Xylene	0.332	0.010	"	0.300		111	70-130			
o-Xylene	0.154	0.0050	"	0.150		103	70-130			
1,2,4-Trimethylbenzene	0.163	0.0050	"	0.150		109	70-130			
1,3,5-Trimethylbenzene	0.160	0.0050	"	0.150		107	70-130			
Naphthalene	0.113	0.0038	"	0.150		75.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

Matrix Spike (BGH0773-MS1)

Source: 2308432-01

Prepared: 08/18/23 Analyzed: 08/19/23

Benzene	0.138	0.0020	mg/kg	0.150	ND	91.9	70-130			
Toluene	0.139	0.0050	"	0.150	ND	92.5	70-130			
Ethylbenzene	0.151	0.0050	"	0.150	ND	101	70-130			
m,p-Xylene	0.314	0.010	"	0.300	ND	105	70-130			
o-Xylene	0.146	0.0050	"	0.150	ND	97.2	70-130			
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.150	ND	104	70-130			
1,3,5-Trimethylbenzene	0.152	0.0050	"	0.150	ND	101	70-130			
Naphthalene	0.124	0.0038	"	0.150	ND	82.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0533		"	0.0400		133	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

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

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

Batch BGH0773 - EPA 5030 Soil MS

Matrix Spike Dup (BGH0773-MSD1)		Source: 2308432-01			Prepared: 08/18/23 Analyzed: 08/19/23					
Benzene	0.141	0.0020	mg/kg	0.150	ND	93.7	70-130	2.00	30	
Toluene	0.140	0.0050	"	0.150	ND	93.4	70-130	0.968	30	
Ethylbenzene	0.146	0.0050	"	0.150	ND	97.5	70-130	3.25	30	
m,p-Xylene	0.308	0.010	"	0.300	ND	103	70-130	1.77	30	
o-Xylene	0.142	0.0050	"	0.150	ND	95.0	70-130	2.35	30	
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.150	ND	104	70-130	0.270	30	
1,3,5-Trimethylbenzene	0.150	0.0050	"	0.150	ND	100	70-130	1.19	30	
Naphthalene	0.127	0.0038	"	0.150	ND	84.3	70-130	2.18	30	
Surrogate: 1,2-Dichloroethane-d4		0.0537	"	0.0400		134	50-150			
Surrogate: Toluene-d8		0.0384	"	0.0400		95.9	50-150			
Surrogate: 4-Bromofluorobenzene		0.0379	"	0.0400		94.8	50-150			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGH0775 - EPA 3550A

Blank (BGH0775-BLK1)

Prepared: 08/18/23 Analyzed: 08/19/23

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

LCS (BGH0775-BS1)

Prepared: 08/18/23 Analyzed: 08/19/23

C10-C28 (DRO)	434	50	mg/kg	500		86.8	70-130			
Surrogate: o-Terphenyl	10.3		"	12.5		82.3	30-150			

Matrix Spike (BGH0775-MS1)

Source: 2308432-01

Prepared: 08/18/23 Analyzed: 08/19/23

C10-C28 (DRO)	302	50	mg/kg	500	7.41	58.8	70-130			QM-07
Surrogate: o-Terphenyl	10.0		"	12.5		80.1	30-150			

Matrix Spike Dup (BGH0775-MSD1)

Source: 2308432-01

Prepared: 08/18/23 Analyzed: 08/19/23

C10-C28 (DRO)	340	50	mg/kg	500	7.41	66.5	70-130	11.9	20	QM-07
Surrogate: o-Terphenyl	11.0		"	12.5		88.1	30-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0799 - EPA 5030 Soil MS

Blank (BGH0799-BLK1)

Prepared & Analyzed: 08/21/23

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

Surrogate: 2-Methylnaphthalene-d10	0.0378	"	0.0333	113	40-150
Surrogate: Fluoranthene-d10	0.0309	"	0.0333	92.6	40-150

LCS (BGH0799-BS1)

Prepared & Analyzed: 08/21/23

Acenaphthene	0.0309	0.00500	mg/kg	0.0333	92.7	31-137
Anthracene	0.0313	0.00500	"	0.0333	93.8	30-120
Benzo (a) anthracene	0.0256	0.00500	"	0.0333	76.9	30-120
Benzo (a) pyrene	0.0281	0.00500	"	0.0333	84.3	30-120
Benzo (b) fluoranthene	0.0317	0.00500	"	0.0333	95.1	30-120
Benzo (k) fluoranthene	0.0320	0.00500	"	0.0333	95.9	30-120
Chrysene	0.0307	0.00500	"	0.0333	92.2	30-120
Dibenz (a,h) anthracene	0.0298	0.00500	"	0.0333	89.3	30-120
Fluoranthene	0.0288	0.00500	"	0.0333	86.3	30-120
Fluorene	0.0311	0.00500	"	0.0333	93.4	30-120
Indeno (1,2,3-cd) pyrene	0.0300	0.00500	"	0.0333	90.1	30-120
Pyrene	0.0272	0.00500	"	0.0333	81.6	35-142
1-Methylnaphthalene	0.0276	0.00500	"	0.0333	82.8	35-142
2-Methylnaphthalene	0.0309	0.00500	"	0.0333	92.6	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0344	"	0.0333	103	40-150
Surrogate: Fluoranthene-d10	0.0309	"	0.0333	92.8	40-150

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0799 - EPA 5030 Soil MS

Matrix Spike (BGH0799-MS1)

Source: 2308432-01

Prepared & Analyzed: 08/21/23

Acenaphthene	0.0256	0.00500	mg/kg	0.0333	ND	76.9	31-137			
Anthracene	0.0253	0.00500	"	0.0333	ND	76.0	30-120			
Benzo (a) anthracene	0.0230	0.00500	"	0.0333	ND	68.9	30-120			
Benzo (a) pyrene	0.0219	0.00500	"	0.0333	ND	65.7	30-120			
Benzo (b) fluoranthene	0.0259	0.00500	"	0.0333	ND	77.7	30-120			
Benzo (k) fluoranthene	0.0259	0.00500	"	0.0333	ND	77.8	30-120			
Chrysene	0.0248	0.00500	"	0.0333	ND	74.4	30-120			
Dibenz (a,h) anthracene	0.0236	0.00500	"	0.0333	ND	70.8	30-120			
Fluoranthene	0.0225	0.00500	"	0.0333	ND	67.5	30-120			
Fluorene	0.0254	0.00500	"	0.0333	ND	76.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333	ND	51.1	30-120			
Pyrene	0.0219	0.00500	"	0.0333	ND	65.6	35-142			
1-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	60.0	15-130			
2-Methylnaphthalene	0.0259	0.00500	"	0.0333	ND	77.6	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0249		"	0.0333		74.6	40-150			
Surrogate: Fluoranthene-d10	0.0251		"	0.0333		75.4	40-150			

Matrix Spike Dup (BGH0799-MSD1)

Source: 2308432-01

Prepared & Analyzed: 08/21/23

Acenaphthene	0.0195	0.00500	mg/kg	0.0333	ND	58.6	31-137	27.0	30	
Anthracene	0.0184	0.00500	"	0.0333	ND	55.4	30-120	31.5	30	QR-02
Benzo (a) anthracene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	23.6	30	
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.1	30-120	29.0	30	
Benzo (b) fluoranthene	0.0206	0.00500	"	0.0333	ND	61.9	30-120	22.6	30	
Benzo (k) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	22.0	30	
Chrysene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	22.5	30	
Dibenz (a,h) anthracene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	24.1	30	
Fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	29.9	30	
Fluorene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	22.7	30	
Indeno (1,2,3-cd) pyrene	0.0212	0.00500	"	0.0333	ND	63.6	30-120	21.8	30	
Pyrene	0.0161	0.00500	"	0.0333	ND	48.3	35-142	30.4	30	QR-02
1-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.3	15-130	25.8	50	
2-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.7	15-130	22.9	50	
Surrogate: 2-Methylnaphthalene-d10	0.0208		"	0.0333		62.4	40-150			
Surrogate: Fluoranthene-d10	0.0188		"	0.0333		56.4	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

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

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

Batch BGH0796 - EPA 3050B

Blank (BGH0796-BLK1)

Prepared & Analyzed: 08/21/23

Boron ND 0.0100 mg/L

LCS (BGH0796-BS1)

Prepared & Analyzed: 08/21/23

Boron 4.98 0.0100 mg/L 5.00 99.6 80-120

Duplicate (BGH0796-DUP1)

Source: 2308174-03

Prepared & Analyzed: 08/21/23

Boron 0.685 0.0100 mg/L 0.661 3.53 20

Matrix Spike (BGH0796-MS1)

Source: 2308174-03

Prepared & Analyzed: 08/21/23

Boron 6.37 0.0100 mg/L 5.00 0.661 114 75-125

Matrix Spike Dup (BGH0796-MSD1)

Source: 2308174-03

Prepared & Analyzed: 08/21/23

Boron 7.31 0.0100 mg/L 5.00 0.661 133 75-125 13.7 25 QM-01

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGH0792 - EPA 3050B

Blank (BGH0792-BLK1)

Prepared: 08/19/23 Analyzed: 08/22/23

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

LCS (BGH0792-BS1)

Prepared: 08/19/23 Analyzed: 08/22/23

Arsenic	43.7	0.200	mg/kg wet	40.0	109	80-120
Barium	48.2	0.400	"	40.0	120	80-120
Cadmium	1.68	0.200	"	2.00	83.8	80-120
Copper	46.3	0.400	"	40.0	116	80-120
Lead	22.3	0.200	"	20.0	111	80-120
Nickel	45.6	0.400	"	40.0	114	80-120
Silver	2.35	0.0200	"	2.00	117	80-120
Zinc	46.6	0.400	"	40.0	116	80-120

Duplicate (BGH0792-DUP1)

Source: 2308167-01

Prepared: 08/19/23 Analyzed: 08/22/23

Arsenic	6.79	0.200	mg/kg dry	7.76	13.3	20	
Barium	10.3	0.400	"	11.3	8.92	20	
Cadmium	0.167	0.200	"	0.229	31.2	20	QR-01
Copper	3.86	0.400	"	4.64	18.3	20	
Lead	9.25	0.200	"	10.7	14.3	20	
Nickel	5.17	0.400	"	5.57	7.44	20	
Silver	0.0288	0.0200	"	0.0358	21.6	20	QM-04
Zinc	24.2	0.400	"	26.5	9.13	20	
Selenium	ND	0.260	"	ND		200	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0792 - EPA 3050B

Matrix Spike (BGH0792-MS1)		Source: 2308167-01			Prepared: 08/19/23		Analyzed: 08/22/23			
Arsenic	48.6	0.200	mg/kg dry	46.5	7.76	87.9	75-125			
Barium	53.9	0.400	"	46.5	11.3	91.6	75-125			
Cadmium	2.59	0.200	"	2.33	0.229	102	75-125			
Copper	30.0	0.400	"	46.5	4.64	54.6	75-125			QM-07
Lead	32.4	0.200	"	23.3	10.7	93.5	75-125			
Nickel	31.7	0.400	"	46.5	5.57	56.1	75-125			QM-07
Silver	2.29	0.0200	"	2.33	0.0358	97.1	75-125			
Zinc	50.4	0.400	"	46.5	26.5	51.4	75-125			QM-07

Matrix Spike Dup (BGH0792-MSD1)		Source: 2308167-01			Prepared: 08/19/23		Analyzed: 08/22/23			
Arsenic	55.8	0.200	mg/kg dry	46.5	7.76	103	75-125	13.7	25	
Barium	56.8	0.400	"	46.5	11.3	97.8	75-125	5.23	25	
Cadmium	2.74	0.200	"	2.33	0.229	108	75-125	5.51	25	
Copper	31.1	0.400	"	46.5	4.64	57.0	75-125	3.68	25	QM-07
Lead	36.4	0.200	"	23.3	10.7	111	75-125	11.7	25	
Nickel	32.6	0.400	"	46.5	5.57	58.1	75-125	2.82	25	QM-07
Silver	2.43	0.0200	"	2.33	0.0358	103	75-125	5.69	25	
Zinc	55.2	0.400	"	46.5	26.5	61.6	75-125	9.04	25	QM-07

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 - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/24/23 10:39

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGH0810 - 3060A Mod

Blank (BGH0810-BLK1)

Prepared & Analyzed: 08/21/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0810-BS1)

Prepared & Analyzed: 08/21/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.8 80-120

Duplicate (BGH0810-DUP1)

Source: 2308319-01

Prepared & Analyzed: 08/21/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0810-MS1)

Source: 2308319-01

Prepared & Analyzed: 08/21/23

Chromium, Hexavalent 30.7 0.30 mg/kg dry 31.7 ND 96.8 75-125

Matrix Spike Dup (BGH0810-MSD1)

Source: 2308319-01

Prepared & Analyzed: 08/21/23

Chromium, Hexavalent 30.6 0.30 mg/kg dry 31.7 ND 96.6 75-125 0.207 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

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

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

Batch BGH0771 - General Preparation

Blank (BGH0771-BLK1)

Prepared: 08/18/23 Analyzed: 08/23/23

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

LCS (BGH0771-BS1)

Prepared: 08/18/23 Analyzed: 08/23/23

Calcium	5.75	0.0500	mg/L wet	5.00	115	70-130
Magnesium	5.34	0.0500	"	5.00	107	70-130
Sodium	5.38	0.0500	"	5.00	108	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

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

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

Batch BGH0785 - General Preparation

Duplicate (BGH0785-DUP1)		Source: 2308174-03		Prepared & Analyzed: 08/19/23							
% Solids	79.1		%		80.4			1.60		20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

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

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

Batch BGH0813 - General Preparation

Blank (BGH0813-BLK1)

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0813-BS1)

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BGH0813-DUP1)

Source: 2308375-01

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) 0.357 0.0100 mmhos/cm 0.357 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

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

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

Batch BGH0812 - General Preparation

LCS (BGH0812-BS1)

Prepared & Analyzed: 08/21/23

pH	8.93	pH Units	9.18	97.3	95-105
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Duplicate (BGH0812-DUP1)

Source: 2308375-01

Prepared & Analyzed: 08/21/23

pH	7.40	pH Units	7.40	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/24/23 10:39

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-04	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 11, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - WPF III
Work Order #2308432

Enclosed are the results of analyses for samples received by Summit Scientific on 08/18/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B03@12'	2308432-01	Soil	08/15/23 14:40	08/18/23 16:30
S01@9'	2308432-02	Soil	08/17/23 12:10	08/18/23 16:30
S03@10'	2308432-04	Soil	08/18/23 12:00	08/18/23 16:30
B04@11'	2308432-05	Soil	08/18/23 13:05	08/18/23 16:30
W02@9'	2308432-06	Soil	08/18/23 14:30	08/18/23 16:30

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2308432	

Client: Fremont Environmental Inc.		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: Noble Energy Inc.	
Address: 8305 6th Steet		E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG, ChrisL, StanG, etc.		Project Name/Location: WPF III	
City/State/Zip: Wellington, CO, 80549		@fremontenv.com		AFE#:	
Phone: (970) 213-7488		Project Name: WPF III		PO/Billing Codes:	
Sampler Name: Chris Lattes (chrisl@fremontenv.com)		Project Number:		Contact: Dan Peterson	

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TPH (GRODRO/ORO)	BTEX, TMB's, Naphthalene	PAH's	pH, EC, SAR, Boron	Table 915 Metals	TDS, Chloride, Sulfate		HOLD		
1	303 @ 12'	8/15/23	14:40	2			X			X			X	X	X	X	X					
2	501 @ 9'	8/17/23	12:10	2			X			X			X	X	X	X	X					
3	502 @ 10'	8/18/23	8:40	2			X			X			X	X	X	X	X			X	CL - HOLD	
4	503 @ 10'	8/18/23	12:00	2			X			X			X	X	X	X	X					
5	304 @ 11'	8/18/23	13:05	2			X			X			X	X	X	X	X					
6	W92 @ 9'	8/18/23	14:30	2			X			X			X	X	X	X	X					
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: Chris Lattes	Date/Time: 8/18/23 15:00	Received by: SQ	Date/Time: 8/18/23 15:50	TAT Business Days	Field DO	Notes: Excavation	
				Same Day	X		Field EC
Relinquished by: SQ	Date/Time: 8/18/23 16:30	Received by: [Signature]	Date/Time: 8/18/23 16:30	1 Day			Field ORP
				2 Days			Field pH
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days			Field Temp.
				Standard		Field Turb.	
Temperature Upon Receipt: 10.1		Corrected Temperature: 6		IR gun #: 1		HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2308432Client: Fremont Client Project ID: WPF IIIShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____

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

Matrix (Check all that apply) Air ☐ Soil ☒ Solid ☐ Water ☐ Other ☐Temp (°C) 10.1Thermometer # 0

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

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

 Custodian Printed Name

8/18/23
 Date/Time

46



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

B03@12'
2308432-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGH0773	08/18/23	08/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0500	125 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	96.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0775	08/18/23	08/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.3	90.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

B03@12'
2308432-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0799	08/21/23	08/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	48.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0141	42.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.332	0.0100	mg/L	1	BGH0796	08/21/23	08/22/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/15/23 14:40**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

B03@12'
2308432-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.58	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B
Barium	68.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.43	0.400	"	"	"	"	"	"
Lead	5.54	0.200	"	"	"	"	"	"
Nickel	4.81	0.400	"	"	"	"	"	"
Silver	0.0224	0.0200	"	"	"	"	"	"
Zinc	14.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0810	08/21/23	08/21/23	EPA 7196A	

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

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.3	0.0609	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
Magnesium	18.6	0.0609	"	"	"	"	"	"	
Sodium	151	0.0609	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.48	0.00100	units	1	BGH0915	08/23/23	08/23/23	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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

B03@12'
2308432-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.1		%	1	BGH0785	08/19/23	08/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.20	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Date Sampled: **08/15/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BGH0812	08/21/23	08/21/23	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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

S01@9'
2308432-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Toluene	ND	0.0050	mg/kg	1	BGH0773	08/18/23	08/18/23	EPA 8260B	
Ethylbenzene	0.0068	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.041	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: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0550	137 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0372	92.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0775	08/18/23	08/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.8	86.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **08/17/23 12:10**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/11/23 09:57

S01@9'
2308432-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Acenaphthene	ND	0.00500	mg/kg	1	BGH0799	08/21/23	08/21/23	EPA 8270D SIM
Anthracene	ND	0.00500	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0154	46.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.197	0.0100	mg/L	1	BGH0796	08/21/23	08/22/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.21	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B	
Barium	144	0.400	"	"	"	"	"	"	
Cadmium	0.208	0.200	"	"	"	"	"	"	
Copper	2.01	0.400	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

S01@9'
2308432-02 (Soil)

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Total Metals by EPA 6020B

Lead	5.67	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B
Nickel	2.15	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.0	0.400	"	"	"	"	"	"
Selenium	0.517	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0810	08/21/23	08/21/23	EPA 7196A	

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

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.1	0.0640	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
Magnesium	4.74	0.0640	"	"	"	"	"	"	
Sodium	100	0.0640	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.95	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.2		%	1	BGH0785	08/19/23	08/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

S01@9'
2308432-02 (Soil)

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.524	0.0100		mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.76			pH Units	1	BGH0812	08/21/23	08/21/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

S01@9'
2308432-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/17/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH1181	08/18/23	08/31/23	EPA 8260B	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

S03@10'
2308432-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2.0	0.020	mg/kg	10	BGH0773	08/18/23	08/18/23	EPA 8260B	
Toluene	ND	0.0050	"	1	"	"	"	"	
Ethylbenzene	2.8	0.050	"	10	"	"	"	"	
Xylenes (total)	18	0.10	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	6.6	0.050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	2.9	0.050	"	"	"	"	"	"	
Naphthalene	0.14	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	390	5.0	"	10	"	"	"	"	

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0650	163 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8	0.0343	85.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0681	170 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	140	50	mg/kg	1	BGH0775	08/18/23	08/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.80	78.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

S03@10'
2308432-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0799	08/21/23	08/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0156	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.130	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.341	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0234	70.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.294	0.0100	mg/L	1	BGH0796	08/21/23	08/22/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/18/23 12:00**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

S03@10'
2308432-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.34	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B
Barium	64.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.55	0.400	"	"	"	"	"	"
Lead	6.15	0.200	"	"	"	"	"	"
Nickel	4.62	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	16.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0810	08/21/23	08/21/23	EPA 7196A	

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

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.7	0.0714	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
Magnesium	10.7	0.0714	"	"	"	"	"	"	
Sodium	121	0.0714	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.28	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

S03@10'
2308432-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	70.0			%	1	BGH0785	08/19/23	08/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.622	0.0100		mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Date Sampled: **08/18/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.44			pH Units	1	BGH0812	08/21/23	08/21/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

B04@11'
2308432-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0773	08/18/23	08/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0541	135 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0377	94.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0437	109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0775	08/18/23	08/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.2	121 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

B04@11'
2308432-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0799	08/21/23	08/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0145	43.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0137	41.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.261	0.0100	mg/L	1	BGH0796	08/21/23	08/22/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

B04@11'
2308432-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.50	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B
Barium	193	0.400	"	"	"	"	"	"
Cadmium	0.504	0.200	"	"	"	"	"	"
Copper	6.09	0.400	"	"	"	"	"	"
Lead	10.8	0.200	"	"	"	"	"	"
Nickel	4.58	0.400	"	"	"	"	"	"
Silver	0.0430	0.0200	"	"	"	"	"	"
Zinc	20.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0810	08/21/23	08/21/23	EPA 7196A	

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

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	116	0.0597	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
Magnesium	46.1	0.0597	"	"	"	"	"	"	
Sodium	176	0.0597	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.50	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/18/23 13:05**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

B04@11'
2308432-05 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.7	%	1	BGH0785	08/19/23	08/19/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.71	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Date Sampled: **08/18/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BGH0812	08/21/23	08/21/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

W02@9'
2308432-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0773	08/18/23	08/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.97	0.050	"	10	"	"	"	"	
Xylenes (total)	2.6	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	3.9	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.68	0.050	"	"	"	"	"	"	
Naphthalene	0.083	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	310	5.0	"	10	"	"	"	"	

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0500	125 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0357	89.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0330	82.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	260	50	mg/kg	1	BGH0775	08/18/23	08/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	18.6	149 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

W02@9'
2308432-06 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0799	08/21/23	08/21/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0216	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.197	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.114	0.00500	"	"	"	"	"	"	

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0157	47.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.627	0.0100	mg/L	1	BGH0796	08/21/23	08/22/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/18/23 14:30**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

W02@9'
2308432-06 (Soil)

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Total Metals by EPA 6020B

Arsenic	2.12	0.200	mg/kg dry	1	BGH0792	08/19/23	08/22/23	EPA 6020B
Barium	58.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.89	0.400	"	"	"	"	"	"
Lead	4.21	0.200	"	"	"	"	"	"
Nickel	2.40	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0810	08/21/23	08/21/23	EPA 7196A	

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

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	120	0.0711	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
Magnesium	15.3	0.0711	"	"	"	"	"	"	
Sodium	284	0.0711	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.49	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

W02@9'
2308432-06 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	70.3		%	1	BGH0785	08/19/23	08/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Date Sampled: **08/18/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BGH0812	08/21/23	08/21/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGH0773 - EPA 5030 Soil MS

Blank (BGH0773-BLK1)

Prepared & Analyzed: 08/18/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0480		"	0.0400		120	50-150			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

LCS (BGH0773-BS1)

Prepared: 08/18/23 Analyzed: 08/19/23

Benzene	0.141	0.0020	mg/kg	0.150		93.7	70-130			
Toluene	0.147	0.0050	"	0.150		98.1	70-130			
Ethylbenzene	0.158	0.0050	"	0.150		105	70-130			
m,p-Xylene	0.332	0.010	"	0.300		111	70-130			
o-Xylene	0.154	0.0050	"	0.150		103	70-130			
1,2,4-Trimethylbenzene	0.163	0.0050	"	0.150		109	70-130			
1,3,5-Trimethylbenzene	0.160	0.0050	"	0.150		107	70-130			
Naphthalene	0.113	0.0038	"	0.150		75.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

Matrix Spike (BGH0773-MS1)

Source: 2308432-01

Prepared: 08/18/23 Analyzed: 08/19/23

Benzene	0.138	0.0020	mg/kg	0.150	ND	91.9	70-130			
Toluene	0.139	0.0050	"	0.150	ND	92.5	70-130			
Ethylbenzene	0.151	0.0050	"	0.150	ND	101	70-130			
m,p-Xylene	0.314	0.010	"	0.300	ND	105	70-130			
o-Xylene	0.146	0.0050	"	0.150	ND	97.2	70-130			
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.150	ND	104	70-130			
1,3,5-Trimethylbenzene	0.152	0.0050	"	0.150	ND	101	70-130			
Naphthalene	0.124	0.0038	"	0.150	ND	82.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0533		"	0.0400		133	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

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PO Box 1289
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGH0773 - EPA 5030 Soil MS

Matrix Spike Dup (BGH0773-MSD1)

Source: 2308432-01

Prepared: 08/18/23 Analyzed: 08/19/23

Benzene	0.141	0.0020	mg/kg	0.150	ND	93.7	70-130	2.00	30	
Toluene	0.140	0.0050	"	0.150	ND	93.4	70-130	0.968	30	
Ethylbenzene	0.146	0.0050	"	0.150	ND	97.5	70-130	3.25	30	
m,p-Xylene	0.308	0.010	"	0.300	ND	103	70-130	1.77	30	
o-Xylene	0.142	0.0050	"	0.150	ND	95.0	70-130	2.35	30	
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.150	ND	104	70-130	0.270	30	
1,3,5-Trimethylbenzene	0.150	0.0050	"	0.150	ND	100	70-130	1.19	30	
Naphthalene	0.127	0.0038	"	0.150	ND	84.3	70-130	2.18	30	
Surrogate: 1,2-Dichloroethane-d4	0.0537		"	0.0400		134	50-150			
Surrogate: Toluene-d8	0.0384		"	0.0400		95.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.8	50-150			

Batch BGH1181 - EPA 5030 Soil MS

Blank (BGH1181-BLK1)

Prepared: 08/29/23 Analyzed: 08/31/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0395		"	0.0400		98.7	50-150			
Surrogate: Toluene-d8	0.0465		"	0.0400		116	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

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

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

Batch BGH1181 - EPA 5030 Soil MS

LCS (BGH1181-BS1)

Prepared: 08/29/23 Analyzed: 08/31/23

Benzene	0.108	0.0020	mg/kg	0.100		108	70-130			
Toluene	0.107	0.0050	"	0.100		107	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.240	0.010	"	0.200		120	70-130			
o-Xylene	0.113	0.0050	"	0.100		113	70-130			
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.126	0.0050	"	0.100		126	70-130			
Naphthalene	0.0994	0.0038	"	0.100		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0454		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400		93.0	50-150			

Matrix Spike (BGH1181-MS1)

Source: 2308627-01

Prepared: 08/29/23 Analyzed: 08/31/23

Benzene	0.104	0.0020	mg/kg	0.100	ND	104	70-130			
Toluene	0.121	0.0050	"	0.100	ND	121	70-130			
Ethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130			
m,p-Xylene	0.242	0.010	"	0.200	ND	121	70-130			
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130			
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.100	ND	122	70-130			
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130			
Naphthalene	0.0915	0.0038	"	0.100	ND	91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0400		99.2	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.2	50-150			

Matrix Spike Dup (BGH1181-MSD1)

Source: 2308627-01

Prepared: 08/29/23 Analyzed: 08/31/23

Benzene	0.110	0.0020	mg/kg	0.100	ND	110	70-130	5.84	30	
Toluene	0.123	0.0050	"	0.100	ND	123	70-130	1.95	30	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	21.0	30	
m,p-Xylene	0.252	0.010	"	0.200	ND	126	70-130	4.04	30	
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	3.50	30	
1,2,4-Trimethylbenzene	0.129	0.0050	"	0.100	ND	129	70-130	5.02	30	
1,3,5-Trimethylbenzene	0.121	0.0050	"	0.100	ND	121	70-130	4.16	30	
Naphthalene	0.0994	0.0038	"	0.100	ND	99.4	70-130	8.33	30	
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0425		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.5	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGH0775 - EPA 3550A

Blank (BGH0775-BLK1)

Prepared: 08/18/23 Analyzed: 08/19/23

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

LCS (BGH0775-BS1)

Prepared: 08/18/23 Analyzed: 08/19/23

C10-C28 (DRO)	434	50	mg/kg	500		86.8	70-130			
Surrogate: o-Terphenyl	10.3		"	12.5		82.3	30-150			

Matrix Spike (BGH0775-MS1)

Source: 2308432-01

Prepared: 08/18/23 Analyzed: 08/19/23

C10-C28 (DRO)	302	50	mg/kg	500	7.41	58.8	70-130			QM-07
Surrogate: o-Terphenyl	10.0		"	12.5		80.1	30-150			

Matrix Spike Dup (BGH0775-MSD1)

Source: 2308432-01

Prepared: 08/18/23 Analyzed: 08/19/23

C10-C28 (DRO)	340	50	mg/kg	500	7.41	66.5	70-130	11.9	20	QM-07
Surrogate: o-Terphenyl	11.0		"	12.5		88.1	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0799 - EPA 5030 Soil MS

Blank (BGH0799-BLK1)

Prepared & Analyzed: 08/21/23

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0378		"	0.0333		113		40-150			
Surrogate: Fluoranthene-d10	0.0309		"	0.0333		92.6		40-150			

LCS (BGH0799-BS1)

Prepared & Analyzed: 08/21/23

Acenaphthene	0.0309	0.00500	mg/kg	0.0333		92.7		31-137			
Anthracene	0.0313	0.00500	"	0.0333		93.8		30-120			
Benzo (a) anthracene	0.0256	0.00500	"	0.0333		76.9		30-120			
Benzo (a) pyrene	0.0281	0.00500	"	0.0333		84.3		30-120			
Benzo (b) fluoranthene	0.0317	0.00500	"	0.0333		95.1		30-120			
Benzo (k) fluoranthene	0.0320	0.00500	"	0.0333		95.9		30-120			
Chrysene	0.0307	0.00500	"	0.0333		92.2		30-120			
Dibenz (a,h) anthracene	0.0298	0.00500	"	0.0333		89.3		30-120			
Fluoranthene	0.0288	0.00500	"	0.0333		86.3		30-120			
Fluorene	0.0311	0.00500	"	0.0333		93.4		30-120			
Indeno (1,2,3-cd) pyrene	0.0300	0.00500	"	0.0333		90.1		30-120			
Pyrene	0.0272	0.00500	"	0.0333		81.6		35-142			
1-Methylnaphthalene	0.0276	0.00500	"	0.0333		82.8		35-142			
2-Methylnaphthalene	0.0309	0.00500	"	0.0333		92.6		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0344		"	0.0333		103		40-150			
Surrogate: Fluoranthene-d10	0.0309		"	0.0333		92.8		40-150			

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0799 - EPA 5030 Soil MS

Matrix Spike (BGH0799-MS1)			Source: 2308432-01		Prepared & Analyzed: 08/21/23						
Acenaphthene	0.0256	0.00500	mg/kg	0.0333	ND	76.9	31-137				
Anthracene	0.0253	0.00500	"	0.0333	ND	76.0	30-120				
Benzo (a) anthracene	0.0230	0.00500	"	0.0333	ND	68.9	30-120				
Benzo (a) pyrene	0.0219	0.00500	"	0.0333	ND	65.7	30-120				
Benzo (b) fluoranthene	0.0259	0.00500	"	0.0333	ND	77.7	30-120				
Benzo (k) fluoranthene	0.0259	0.00500	"	0.0333	ND	77.8	30-120				
Chrysene	0.0248	0.00500	"	0.0333	ND	74.4	30-120				
Dibenz (a,h) anthracene	0.0236	0.00500	"	0.0333	ND	70.8	30-120				
Fluoranthene	0.0225	0.00500	"	0.0333	ND	67.5	30-120				
Fluorene	0.0254	0.00500	"	0.0333	ND	76.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333	ND	51.1	30-120				
Pyrene	0.0219	0.00500	"	0.0333	ND	65.6	35-142				
1-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	60.0	15-130				
2-Methylnaphthalene	0.0259	0.00500	"	0.0333	ND	77.6	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0249		"	0.0333		74.6	40-150				
Surrogate: Fluoranthene-d10	0.0251		"	0.0333		75.4	40-150				

Matrix Spike Dup (BGH0799-MSD1)			Source: 2308432-01		Prepared & Analyzed: 08/21/23						
Acenaphthene	0.0195	0.00500	mg/kg	0.0333	ND	58.6	31-137	27.0	30		
Anthracene	0.0184	0.00500	"	0.0333	ND	55.4	30-120	31.5	30		QR-02
Benzo (a) anthracene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	23.6	30		
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.1	30-120	29.0	30		
Benzo (b) fluoranthene	0.0206	0.00500	"	0.0333	ND	61.9	30-120	22.6	30		
Benzo (k) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	22.0	30		
Chrysene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	22.5	30		
Dibenz (a,h) anthracene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	24.1	30		
Fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	29.9	30		
Fluorene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	22.7	30		
Indeno (1,2,3-cd) pyrene	0.0212	0.00500	"	0.0333	ND	63.6	30-120	21.8	30		
Pyrene	0.0161	0.00500	"	0.0333	ND	48.3	35-142	30.4	30		QR-02
1-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.3	15-130	25.8	50		
2-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.7	15-130	22.9	50		
Surrogate: 2-Methylnaphthalene-d10	0.0208		"	0.0333		62.4	40-150				
Surrogate: Fluoranthene-d10	0.0188		"	0.0333		56.4	40-150				

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

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

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

Batch BGH0796 - EPA 3050B

Blank (BGH0796-BLK1)

Prepared & Analyzed: 08/21/23

Boron ND 0.0100 mg/L

LCS (BGH0796-BS1)

Prepared & Analyzed: 08/21/23

Boron 4.98 0.0100 mg/L 5.00 99.6 80-120

Duplicate (BGH0796-DUP1)

Source: 2308174-03

Prepared & Analyzed: 08/21/23

Boron 0.685 0.0100 mg/L 0.661 3.53 20

Matrix Spike (BGH0796-MS1)

Source: 2308174-03

Prepared & Analyzed: 08/21/23

Boron 6.37 0.0100 mg/L 5.00 0.661 114 75-125

Matrix Spike Dup (BGH0796-MSD1)

Source: 2308174-03

Prepared & Analyzed: 08/21/23

Boron 7.31 0.0100 mg/L 5.00 0.661 133 75-125 13.7 25 QM-01

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0792 - EPA 3050B

Blank (BGH0792-BLK1)

Prepared: 08/19/23 Analyzed: 08/22/23

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

LCS (BGH0792-BS1)

Prepared: 08/19/23 Analyzed: 08/22/23

Arsenic	43.7	0.200	mg/kg wet	40.0	109	80-120
Barium	48.2	0.400	"	40.0	120	80-120
Cadmium	1.68	0.200	"	2.00	83.8	80-120
Copper	46.3	0.400	"	40.0	116	80-120
Lead	22.3	0.200	"	20.0	111	80-120
Nickel	45.6	0.400	"	40.0	114	80-120
Silver	2.35	0.0200	"	2.00	117	80-120
Zinc	46.6	0.400	"	40.0	116	80-120

Duplicate (BGH0792-DUP1)

Source: 2308167-01

Prepared: 08/19/23 Analyzed: 08/22/23

Arsenic	6.79	0.200	mg/kg dry	7.76	13.3	20	QR-01
Barium	10.3	0.400	"	11.3	8.92	20	
Cadmium	0.167	0.200	"	0.229	31.2	20	
Copper	3.86	0.400	"	4.64	18.3	20	
Lead	9.25	0.200	"	10.7	14.3	20	
Nickel	5.17	0.400	"	5.57	7.44	20	QM-04
Silver	0.0288	0.0200	"	0.0358	21.6	20	
Zinc	24.2	0.400	"	26.5	9.13	20	
Selenium	ND	0.260	"	ND		200	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0792 - EPA 3050B

Matrix Spike (BGH0792-MS1)		Source: 2308167-01			Prepared: 08/19/23		Analyzed: 08/22/23			
Arsenic	48.6	0.200	mg/kg dry	46.5	7.76	87.9	75-125			
Barium	53.9	0.400	"	46.5	11.3	91.6	75-125			
Cadmium	2.59	0.200	"	2.33	0.229	102	75-125			
Copper	30.0	0.400	"	46.5	4.64	54.6	75-125			QM-07
Lead	32.4	0.200	"	23.3	10.7	93.5	75-125			
Nickel	31.7	0.400	"	46.5	5.57	56.1	75-125			QM-07
Silver	2.29	0.0200	"	2.33	0.0358	97.1	75-125			
Zinc	50.4	0.400	"	46.5	26.5	51.4	75-125			QM-07

Matrix Spike Dup (BGH0792-MSD1)		Source: 2308167-01			Prepared: 08/19/23		Analyzed: 08/22/23			
Arsenic	55.8	0.200	mg/kg dry	46.5	7.76	103	75-125	13.7	25	
Barium	56.8	0.400	"	46.5	11.3	97.8	75-125	5.23	25	
Cadmium	2.74	0.200	"	2.33	0.229	108	75-125	5.51	25	
Copper	31.1	0.400	"	46.5	4.64	57.0	75-125	3.68	25	QM-07
Lead	36.4	0.200	"	23.3	10.7	111	75-125	11.7	25	
Nickel	32.6	0.400	"	46.5	5.57	58.1	75-125	2.82	25	QM-07
Silver	2.43	0.0200	"	2.33	0.0358	103	75-125	5.69	25	
Zinc	55.2	0.400	"	46.5	26.5	61.6	75-125	9.04	25	QM-07

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 - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/11/23 09:57

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGH0810 - 3060A Mod

Blank (BGH0810-BLK1)

Prepared & Analyzed: 08/21/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0810-BS1)

Prepared & Analyzed: 08/21/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.8 80-120

Duplicate (BGH0810-DUP1)

Source: 2308319-01

Prepared & Analyzed: 08/21/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0810-MS1)

Source: 2308319-01

Prepared & Analyzed: 08/21/23

Chromium, Hexavalent 30.7 0.30 mg/kg dry 31.7 ND 96.8 75-125

Matrix Spike Dup (BGH0810-MSD1)

Source: 2308319-01

Prepared & Analyzed: 08/21/23

Chromium, Hexavalent 30.6 0.30 mg/kg dry 31.7 ND 96.6 75-125 0.207 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

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

Summit Scientific

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

Batch BGH0771 - General Preparation

Blank (BGH0771-BLK1)

Prepared: 08/18/23 Analyzed: 08/23/23

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

LCS (BGH0771-BS1)

Prepared: 08/18/23 Analyzed: 08/23/23

Calcium	5.75	0.0500	mg/L wet	5.00	115	70-130
Magnesium	5.34	0.0500	"	5.00	107	70-130
Sodium	5.38	0.0500	"	5.00	108	70-130

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

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

Summit Scientific

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

Batch BGH0785 - General Preparation

Duplicate (BGH0785-DUP1)

Source: 2308174-03

Prepared & Analyzed: 08/19/23

% Solids	79.1	%	80.4	1.60	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

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

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

Batch BGH0813 - General Preparation

Blank (BGH0813-BLK1)

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0813-BS1)

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BGH0813-DUP1)

Source: 2308375-01

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) 0.357 0.0100 mmhos/cm 0.357 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

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

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

Batch BGH0812 - General Preparation

LCS (BGH0812-BS1)

Prepared & Analyzed: 08/21/23

pH	8.93	pH Units	9.18	97.3	95-105
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Duplicate (BGH0812-DUP1)

Source: 2308375-01

Prepared & Analyzed: 08/21/23

pH	7.40	pH Units	7.40	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/11/23 09:57

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-04	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 05, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - WPF III
Work Order #2308560

Enclosed are the results of analyses for samples received by Summit Scientific on 08/24/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S04@9'	2308560-01	Soil	08/21/23 12:25	08/24/23 16:30
S05@10'	2308560-02	Soil	08/21/23 13:10	08/24/23 16:30
W03@9'	2308560-03	Soil	08/22/23 13:10	08/24/23 16:30
S06@10'	2308560-05	Soil	08/23/23 10:50	08/24/23 16:30
B05@11'	2308560-06	Soil	08/23/23 15:30	08/24/23 16:30
S07@9'	2308560-07	Soil	08/24/23 08:30	08/24/23 16:30
W04@9'	2308560-08	Soil	08/24/23 10:00	08/24/23 16:30

Summit Scientific

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

Send Data To:		Send Invoice To:
Client: Fremont Environmental Inc.	Project Manager: Paul Henehan	Company: Noble Energy Inc.
Address: 8305 6th Steet	E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG, ChrisL, StanG, etc.	Project Name/Location: WPF III
City/State/Zip: Wellington, CO, 80549	@fremontenv.com	AFE#:
Phone: (970) 213-7488	Project Name: WPF III	PO/Billing Codes:
Sampler Name: Chris Lattes (chrisl@fremontenv.com)	Project Number:	Contact: Dan Peterson

					Preservative				Matrix			Analysis Requested							Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TPH (GRO/DRO/ORO)	BTEX, TMB's, Naphtlene	PAH's	pH, EC, SAR, Boron	Table 915 Metals	TDS, Chloride, Sulfate	HOLD
1	504 @ 9'	8/21/23	12:25	2			X			X			X	X	X	X	X		
2	505 @ 10'	8/21/23	13:10	2			X			X			X	X	X	X	X		
3	W93 @ 9'	8/22/23	13:10	2			X			X			X	X	X	X	X		
4	W504	8/23/23	9:05	2			X			X									X
5	506 @ 10'	8/23/23	10:50	2			X			X			X	X	X	X	X		
6	505 @ 11'	8/23/23	15:30	2			X			X			X	X	X	X	X		
7	507 @ 9'	8/24/23	8:30	2			X			X			X	X	X	X	X		
8	W94 @ 9'	8/24/23	10:00	2			X			X			X	X	X	X	X		
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: Chris Lattes	Date/Time: 8/24/23 11:15	Received by: SJ	Date/Time: 8/24/23 11:15	TAT Business Days	Field DO	Notes: Excavation	
				Same Day	X		Field EC
Relinquished by: SJ	Date/Time: 8/24/23 1030	Received by: [Signature]	Date/Time: 8/24/23 1030	1 Day			Field ORP
				2 Days			Field pH
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days			Field Temp.
				Standard		Field Turb.	
Temperature Upon Receipt: 8.7	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:				

S2 Work Order# 2308560

Client: Fremont

Client Project ID: WPF III

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

Airbill #:

	-			
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Matrix (Check all that apply)

Air

Soil/Solid

Water

Other



Temp (°C)

8.7

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature $< 6^{\circ}\text{C}$? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			
If custody seals are present, are they intact? ⁽¹⁾	-			ORICE
Are samples due within 48 hours present?	-			Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe^{2+}), Hexavalent Chromium (Cr^{6+} , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	-			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H_2SO_4 , NaOH, HNO_3 , etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2 ? ⁽¹⁾ Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
<u>Additional Comments (if any):</u>				

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

Custodian Printed Name

8/24/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S04@9'
2308560-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH1022	08/24/23	08/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0259	64.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0376	94.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0300	75.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH1023	"	08/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.4	123 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S04@9'
2308560-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGH1040	08/25/23	08/25/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0152	45.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.157	0.0100	mg/L	1	BGH1029	08/25/23	08/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S04@9'
2308560-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.13	0.200	mg/kg dry	1	BGH1049	08/25/23	08/28/23	EPA 6020B
Barium	303	0.400	"	"	"	"	"	"
Cadmium	0.399	0.200	"	"	"	"	"	"
Copper	2.56	0.400	"	"	"	"	"	"
Lead	11.7	0.200	"	"	"	"	"	"
Nickel	2.22	0.400	"	"	"	"	"	"
Silver	0.0525	0.0200	"	"	"	"	"	"
Zinc	9.31	0.400	"	"	"	"	"	"
Selenium	0.265	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH1051	08/25/23	08/25/23	EPA 7196A	

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

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.2	0.0721	mg/L dry	1	BGH1021	08/24/23	08/26/23	EPA 6020B	
Magnesium	23.6	0.0721	"	"	"	"	"	"	
Sodium	274	0.0721	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.33	0.00100	units	1	BGH1123	08/28/23	08/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/23 12:25**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S04@9'
2308560-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	69.4	%	1	BGH1028	08/25/23	08/25/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.31	0.0100	mmhos/cm	1	BGH1035	08/25/23	08/25/23	EPA 120.1	

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

Date Sampled: **08/21/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69		pH Units	1	BGH1036	08/25/23	08/25/23	EPA 9045D	

Summit Scientific

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S05@10'
2308560-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.15	0.0020	mg/kg	1	BGH1022	08/24/23	08/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.32	0.0050	"	"	"	"	"	"	
Xylenes (total)	2.0	0.010	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	1.0	0.0050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	0.35	0.0050	"	"	"	"	"	"	
Naphthalene	0.073	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	130	0.50	"	"	"	"	"	"	E

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0332	83.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0342	85.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	67	50	mg/kg	1	BGH1023	"	08/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.3	115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S05@10'
2308560-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH1040	08/25/23	08/25/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0116	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0781	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.102	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0167	50.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0135	40.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.379	0.0100	mg/L	1	BGH1029	08/25/23	08/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/21/23 13:10**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S05@10'
2308560-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.48	0.200	mg/kg dry	1	BGH1049	08/25/23	08/28/23	EPA 6020B
Barium	197	0.400	"	"	"	"	"	"
Cadmium	0.299	0.200	"	"	"	"	"	"
Copper	3.06	0.400	"	"	"	"	"	"
Lead	11.6	0.200	"	"	"	"	"	"
Nickel	2.46	0.400	"	"	"	"	"	"
Silver	0.0521	0.0200	"	"	"	"	"	"
Zinc	10.9	0.400	"	"	"	"	"	"
Selenium	0.292	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH1051	08/25/23	08/25/23	EPA 7196A	

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

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.3	0.0715	mg/L dry	1	BGH1021	08/24/23	08/26/23	EPA 6020B	
Magnesium	17.2	0.0715	"	"	"	"	"	"	
Sodium	134	0.0715	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.77	0.00100	units	1	BGH1123	08/28/23	08/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/21/23 13:10**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S05@10'
2308560-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	69.9	%	1	BGH1028	08/25/23	08/25/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.482	0.0100	mmhos/cm	1	BGH1035	08/25/23	08/25/23	EPA 120.1	

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

Date Sampled: **08/21/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BGH1036	08/25/23	08/25/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

W03@9'
2308560-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH1022	08/24/23	08/24/23	EPA 8260B	
Toluene	0.29	0.0050	"	"	"	"	"	"	
Ethylbenzene	1.0	0.0050	"	"	"	"	"	"	E
Xylenes (total)	6.5	0.010	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	2.8	0.0050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	1.1	0.0050	"	"	"	"	"	"	E
Naphthalene	0.20	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	330	0.50	"	"	"	"	"	"	E

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0452	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0357	89.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0795	199 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	64	50	mg/kg	1	BGH1023	"	08/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/22/23 13:10**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

W03@9'
2308560-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH1040	08/25/23	08/25/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0124	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.189	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.226	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0148	44.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.234	0.0100	mg/L	1	BGH1029	08/25/23	08/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/22/23 13:10**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

W03@9'
2308560-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.31	0.200	mg/kg dry	1	BGH1049	08/25/23	08/28/23	EPA 6020B
Barium	227	0.400	"	"	"	"	"	"
Cadmium	0.341	0.200	"	"	"	"	"	"
Copper	2.70	0.400	"	"	"	"	"	"
Lead	9.96	0.200	"	"	"	"	"	"
Nickel	2.29	0.400	"	"	"	"	"	"
Silver	0.0416	0.0200	"	"	"	"	"	"
Zinc	9.82	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH1051	08/25/23	08/25/23	EPA 7196A	

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

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	192	0.0722	mg/L dry	1	BGH1021	08/24/23	08/26/23	EPA 6020B	
Magnesium	25.7	0.0722	"	"	"	"	"	"	
Sodium	294	0.0722	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.29	0.00100	units	1	BGH1123	08/28/23	08/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/22/23 13:10**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

W03@9'
2308560-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	69.3	%	1	BGH1028	08/25/23	08/25/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.877	0.0100	mmhos/cm	1	BGH1035	08/25/23	08/25/23	EPA 120.1	

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

Date Sampled: **08/22/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BGH1036	08/25/23	08/25/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S06@10'
2308560-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.2	0.020	mg/kg	10	BGH1022	08/24/23	08/25/23	EPA 8260B	
Toluene	ND	0.0050	"	1	"	"	"	"	
Ethylbenzene	3.2	0.050	"	10	"	"	"	"	
Xylenes (total)	26	0.10	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	6.8	0.050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	2.8	0.050	"	"	"	"	"	"	
Naphthalene	0.26	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	900	5.0	"	10	"	"	"	"	E

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0436	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0330	82.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0569	142 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	100	50	mg/kg	1	BGH1023	"	08/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.1	113 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S06@10'
2308560-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH1040	08/25/23	08/25/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0278	83.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	57.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.103	0.0100	mg/L	1	BGH1029	08/25/23	08/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/23/23 10:50**

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

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S06@10'
2308560-05 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.16	0.200	mg/kg dry	1	BGH1049	08/25/23	08/28/23	EPA 6020B
Barium	260	0.400	"	"	"	"	"	"
Cadmium	0.320	0.200	"	"	"	"	"	"
Copper	2.31	0.400	"	"	"	"	"	"
Lead	8.79	0.200	"	"	"	"	"	"
Nickel	2.08	0.400	"	"	"	"	"	"
Silver	0.0320	0.0200	"	"	"	"	"	"
Zinc	8.33	0.400	"	"	"	"	"	"
Selenium	0.557	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH1051	08/25/23	08/25/23	EPA 7196A	

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

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.4	0.0715	mg/L dry	1	BGH1021	08/24/23	08/26/23	EPA 6020B	
Magnesium	12.1	0.0715	"	"	"	"	"	"	
Sodium	211	0.0715	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.72	0.00100	units	1	BGH1123	08/28/23	08/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/23/23 10:50**

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

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S06@10'
2308560-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	69.9	%	1	BGH1028	08/25/23	08/25/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.906	0.0100	mmhos/cm	1	BGH1035	08/25/23	08/25/23	EPA 120.1	

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

Date Sampled: **08/23/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BGH1036	08/25/23	08/25/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

B05@11'
2308560-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH1022	08/24/23	08/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0255	63.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0374	93.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0312	78.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH1023	"	08/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.8	118 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

B05@11'
2308560-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH1040	08/25/23	08/25/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0268	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.288	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.420	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0149	44.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0154	46.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.132	0.0100	mg/L	1	BGH1029	08/25/23	08/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/23/23 15:30**

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

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

B05@11'
2308560-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.27	0.200	mg/kg dry	1	BGH1049	08/25/23	08/28/23	EPA 6020B
Barium	82.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.97	0.400	"	"	"	"	"	"
Lead	5.26	0.200	"	"	"	"	"	"
Nickel	2.74	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	8.87	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH1051	08/25/23	08/25/23	EPA 7196A	

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

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.7	0.0600	mg/L dry	1	BGH1021	08/24/23	08/26/23	EPA 6020B	
Magnesium	25.3	0.0600	"	"	"	"	"	"	
Sodium	194	0.0600	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.93	0.00100	units	1	BGH1123	08/28/23	08/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

B05@11'
2308560-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	83.3			%	1	BGH1028	08/25/23	08/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.17	0.0100		mmhos/cm	1	BGH1035	08/25/23	08/25/23	EPA 120.1	

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

Date Sampled: **08/23/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.89			pH Units	1	BGH1036	08/25/23	08/25/23	EPA 9045D	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S07@9'
2308560-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.30	0.0020	mg/kg	1	BGH1022	08/24/23	08/25/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.14	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.0	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.33	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.14	0.0050	"	"	"	"	"	"	
Naphthalene	0.043	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	25	0.50	"	"	"	"	"	"	

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0348	87.0 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0441	110 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0426	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH1023	"	08/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	12.9	103 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S07@9'
2308560-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH1040	08/25/23	08/26/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0468	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0800	0.00500	"	"	"	"	"	"	

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0217	65.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.147	0.0100	mg/L	1	BGH1029	08/25/23	08/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/24/23 08:30**

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

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S07@9'
2308560-07 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.36	0.200	mg/kg dry	1	BGH1049	08/25/23	08/28/23	EPA 6020B
Barium	273	0.400	"	"	"	"	"	"
Cadmium	0.307	0.200	"	"	"	"	"	"
Copper	2.34	0.400	"	"	"	"	"	"
Lead	9.75	0.200	"	"	"	"	"	"
Nickel	2.08	0.400	"	"	"	"	"	"
Silver	0.0445	0.0200	"	"	"	"	"	"
Zinc	8.42	0.400	"	"	"	"	"	"
Selenium	0.307	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH1051	08/25/23	08/25/23	EPA 7196A	

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

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.1	0.0687	mg/L dry	1	BGH1021	08/24/23	08/26/23	EPA 6020B	
Magnesium	19.7	0.0687	"	"	"	"	"	"	
Sodium	248	0.0687	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.70	0.00100	units	1	BGH1123	08/28/23	08/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

S07@9'
2308560-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	72.8	%	1	BGH1028	08/25/23	08/25/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.24	0.0100	mmhos/cm	1	BGH1035	08/25/23	08/25/23	EPA 120.1	

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

Date Sampled: **08/24/23 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.55		pH Units	1	BGH1036	08/25/23	08/25/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

W04@9'
2308560-08 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.13	0.0020	mg/kg	1	BGH1022	08/24/23	08/25/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	7.5	0.050	"	10	"	"	"	"	E
Xylenes (total)	59	0.10	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	19	0.050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	8.2	0.050	"	"	"	"	"	"	E
Naphthalene	1.5	0.038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2100	5.0	"	"	"	"	"	"	E

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0425	106 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0359	89.8 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0717	179 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	130	50	mg/kg	1	BGH1023	"	08/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	14.9	119 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

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W04@9'
2308560-08 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH1040	08/25/23	08/26/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0574	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.570	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.579	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	63.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.508	0.0100	mg/L	1	BGH1029	08/25/23	08/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

W04@9'
2308560-08 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.25	0.200	mg/kg dry	1	BGH1049	08/25/23	08/28/23	EPA 6020B
Barium	290	0.400	"	"	"	"	"	"
Cadmium	0.440	0.200	"	"	"	"	"	"
Copper	2.63	0.400	"	"	"	"	"	"
Lead	11.6	0.200	"	"	"	"	"	"
Nickel	2.21	0.400	"	"	"	"	"	"
Silver	0.0506	0.0200	"	"	"	"	"	"
Zinc	8.84	0.400	"	"	"	"	"	"
Selenium	0.346	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH1051	08/25/23	08/25/23	EPA 7196A	

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

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.2	0.0711	mg/L dry	1	BGH1021	08/24/23	08/26/23	EPA 6020B	
Magnesium	10.2	0.0711	"	"	"	"	"	"	
Sodium	229	0.0711	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.30	0.00100	units	1	BGH1123	08/28/23	08/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

W04@9'
2308560-08 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	70.3	%	1	BGH1028	08/25/23	08/25/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.806	0.0100	mmhos/cm	1	BGH1035	08/25/23	08/25/23	EPA 120.1	

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

Date Sampled: **08/24/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BGH1036	08/25/23	08/25/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGH1022 - EPA 5030 Soil MS

Blank (BGH1022-BLK1)

Prepared: 08/24/23 Analyzed: 08/25/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0240		"	0.0400		60.0	50-150			
Surrogate: Toluene-d8	0.0357		"	0.0400		89.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0306		"	0.0400		76.4	50-150			

LCS (BGH1022-BS1)

Prepared: 08/24/23 Analyzed: 08/25/23

Benzene	0.0826	0.0020	mg/kg	0.100		82.6	70-130			
Toluene	0.0854	0.0050	"	0.100		85.4	70-130			
Ethylbenzene	0.0909	0.0050	"	0.100		90.9	70-130			
m,p-Xylene	0.203	0.010	"	0.200		101	70-130			
o-Xylene	0.0974	0.0050	"	0.100		97.4	70-130			
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.0947	0.0050	"	0.100		94.7	70-130			
Naphthalene	0.0900	0.0038	"	0.100		90.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0263		"	0.0400		65.8	50-150			
Surrogate: Toluene-d8	0.0372		"	0.0400		93.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0306		"	0.0400		76.6	50-150			

Matrix Spike (BGH1022-MS1)

Source: 2308560-01

Prepared: 08/24/23 Analyzed: 08/25/23

Benzene	0.106	0.0020	mg/kg	0.100	ND	106	70-130			
Toluene	0.0812	0.0050	"	0.100	ND	81.2	70-130			
Ethylbenzene	0.0819	0.0050	"	0.100	ND	81.9	70-130			
m,p-Xylene	0.157	0.010	"	0.200	ND	78.5	70-130			
o-Xylene	0.0921	0.0050	"	0.100	ND	92.1	70-130			
1,2,4-Trimethylbenzene	0.0955	0.0050	"	0.100	ND	95.5	70-130			
1,3,5-Trimethylbenzene	0.0902	0.0050	"	0.100	ND	90.2	70-130			
Naphthalene	0.107	0.0038	"	0.100	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0257		"	0.0400		64.4	50-150			
Surrogate: Toluene-d8	0.0379		"	0.0400		94.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0314		"	0.0400		78.6	50-150			

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

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

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

Batch BGH1022 - EPA 5030 Soil MS

Matrix Spike Dup (BGH1022-MSD1)	Source: 2308560-01			Prepared: 08/24/23 Analyzed: 08/25/23						
Benzene	0.100	0.0020	mg/kg	0.100	ND	100	70-130	6.16	30	
Toluene	0.102	0.0050	"	0.100	ND	102	70-130	23.1	30	
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	25.0	30	
m,p-Xylene	0.172	0.010	"	0.200	ND	85.8	70-130	8.89	30	
o-Xylene	0.0868	0.0050	"	0.100	ND	86.8	70-130	5.84	30	
1,2,4-Trimethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130	9.20	30	
1,3,5-Trimethylbenzene	0.0842	0.0050	"	0.100	ND	84.2	70-130	6.85	30	
Naphthalene	0.0981	0.0038	"	0.100	ND	98.1	70-130	8.38	30	
Surrogate: 1,2-Dichloroethane-d4	0.0261		"	0.0400		65.2	50-150			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0319		"	0.0400		79.8	50-150			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGH1023 - EPA 3550A

Blank (BGH1023-BLK1)

Prepared: 08/24/23 Analyzed: 08/25/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	14.6		"	12.5		117	30-150			

LCS (BGH1023-BS1)

Prepared: 08/24/23 Analyzed: 08/25/23

C10-C28 (DRO)	500	50	mg/kg	500		100	70-130			
Surrogate: o-Terphenyl	14.0		"	12.5		112	30-150			

Matrix Spike (BGH1023-MS1)

Source: 2308560-06

Prepared: 08/24/23 Analyzed: 08/25/23

C10-C28 (DRO)	520	50	mg/kg	500	6.93	103	70-130			
Surrogate: o-Terphenyl	14.1		"	12.5		113	30-150			

Matrix Spike Dup (BGH1023-MSD1)

Source: 2308560-06

Prepared: 08/24/23 Analyzed: 08/25/23

C10-C28 (DRO)	499	50	mg/kg	500	6.93	98.4	70-130	4.07	20	
Surrogate: o-Terphenyl	13.9		"	12.5		111	30-150			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH1040 - EPA 5030 Soil MS

Blank (BGH1040-BLK1)

Prepared & Analyzed: 08/25/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0415		"	0.0333		125	40-150			
Surrogate: Fluoranthene-d10	0.0313		"	0.0333		93.9	40-150			

LCS (BGH1040-BS1)

Prepared & Analyzed: 08/25/23

Acenaphthene	0.0358	0.00500	mg/kg	0.0333		107	31-137			
Anthracene	0.0346	0.00500	"	0.0333		104	30-120			
Benzo (a) anthracene	0.0272	0.00500	"	0.0333		81.6	30-120			
Benzo (a) pyrene	0.0354	0.00500	"	0.0333		106	30-120			
Benzo (b) fluoranthene	0.0367	0.00500	"	0.0333		110	30-120			
Benzo (k) fluoranthene	0.0355	0.00500	"	0.0333		107	30-120			
Chrysene	0.0356	0.00500	"	0.0333		107	30-120			
Dibenz (a,h) anthracene	0.0325	0.00500	"	0.0333		97.6	30-120			
Fluoranthene	0.0333	0.00500	"	0.0333		99.9	30-120			
Fluorene	0.0363	0.00500	"	0.0333		109	30-120			
Indeno (1,2,3-cd) pyrene	0.0237	0.00500	"	0.0333		71.2	30-120			
Pyrene	0.0392	0.00500	"	0.0333		117	35-142			
1-Methylnaphthalene	0.0250	0.00500	"	0.0333		75.1	35-142			
2-Methylnaphthalene	0.0406	0.00500	"	0.0333		122	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0408		"	0.0333		123	40-150			
Surrogate: Fluoranthene-d10	0.0303		"	0.0333		90.8	40-150			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH1040 - EPA 5030 Soil MS

Matrix Spike (BGH1040-MS1)			Source: 2308521-01		Prepared & Analyzed: 08/25/23						
Acenaphthene	0.0153	0.00500	mg/kg	0.0333	ND	45.9	31-137				
Anthracene	0.0146	0.00500	"	0.0333	ND	43.7	30-120				
Benzo (a) anthracene	0.0163	0.00500	"	0.0333	ND	48.8	30-120				
Benzo (a) pyrene	0.0141	0.00500	"	0.0333	ND	42.2	30-120				
Benzo (b) fluoranthene	0.0153	0.00500	"	0.0333	ND	46.0	30-120				
Benzo (k) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.1	30-120				
Chrysene	0.0163	0.00500	"	0.0333	ND	48.8	30-120				
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333	ND	40.7	30-120				
Fluoranthene	0.0157	0.00500	"	0.0333	ND	47.1	30-120				
Fluorene	0.0159	0.00500	"	0.0333	0.0903	NR	30-120				QM-01
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.2	30-120				
Pyrene	0.0167	0.00500	"	0.0333	0.00603	31.9	35-142				QM-01
1-Methylnaphthalene	0.0146	0.00500	"	0.0333	0.482	NR	15-130				QM-01
2-Methylnaphthalene	0.0171	0.00500	"	0.0333	0.772	NR	15-130				QM-01
Surrogate: 2-Methylnaphthalene-d10	0.0157		"	0.0333		47.1	40-150				
Surrogate: Fluoranthene-d10	0.0136		"	0.0333		40.7	40-150				

Matrix Spike Dup (BGH1040-MSD1)			Source: 2308521-01		Prepared & Analyzed: 08/25/23						
Acenaphthene	0.0139	0.00500	mg/kg	0.0333	ND	41.6	31-137	9.81	30		
Anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	1.20	30		
Benzo (a) anthracene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	8.55	30		
Benzo (a) pyrene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	11.9	30		
Benzo (b) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120	0.745	30		
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.9	30-120	4.86	30		
Chrysene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	4.76	30		
Dibenz (a,h) anthracene	0.0138	0.00500	"	0.0333	ND	41.4	30-120	1.78	30		
Fluoranthene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	15.5	30		
Fluorene	0.0148	0.00500	"	0.0333	0.0903	NR	30-120	7.00	30		QM-01
Indeno (1,2,3-cd) pyrene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	4.50	30		
Pyrene	0.0146	0.00500	"	0.0333	0.00603	25.8	35-142	13.0	30		QM-01
1-Methylnaphthalene	0.0160	0.00500	"	0.0333	0.482	NR	15-130	9.29	50		QM-01
2-Methylnaphthalene	0.0158	0.00500	"	0.0333	0.772	NR	15-130	7.41	50		QM-01
Surrogate: 2-Methylnaphthalene-d10	0.0156		"	0.0333		46.8	40-150				
Surrogate: Fluoranthene-d10	0.0148		"	0.0333		44.5	40-150				

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

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

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

Batch BGH1029 - EPA 3050B

Blank (BGH1029-BLK1)

Prepared: 08/25/23 Analyzed: 08/26/23

Boron ND 0.0100 mg/L

LCS (BGH1029-BS1)

Prepared: 08/25/23 Analyzed: 08/26/23

Boron 5.30 0.0100 mg/L 5.00 106 80-120

Duplicate (BGH1029-DUP1)

Source: 2308560-01

Prepared: 08/25/23 Analyzed: 08/26/23

Boron 0.0722 0.0100 mg/L 0.157 74.3 20 QR-01

Matrix Spike (BGH1029-MS1)

Source: 2308560-01

Prepared: 08/25/23 Analyzed: 08/26/23

Boron 5.53 0.0100 mg/L 5.00 0.157 107 75-125

Matrix Spike Dup (BGH1029-MSD1)

Source: 2308560-01

Prepared: 08/25/23 Analyzed: 08/26/23

Boron 5.80 0.0100 mg/L 5.00 0.157 113 75-125 4.74 25

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH1049 - EPA 3050B

Blank (BGH1049-BLK1)

Prepared: 08/25/23 Analyzed: 08/28/23

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

LCS (BGH1049-BS1)

Prepared: 08/25/23 Analyzed: 08/28/23

Arsenic	47.1	0.200	mg/kg wet	40.0	118	80-120
Barium	40.7	0.400	"	40.0	102	80-120
Cadmium	2.17	0.200	"	2.00	108	80-120
Copper	47.1	0.400	"	40.0	118	80-120
Lead	20.8	0.200	"	20.0	104	80-120
Nickel	47.0	0.400	"	40.0	117	80-120
Silver	2.09	0.0200	"	2.00	104	80-120
Zinc	46.9	0.400	"	40.0	117	80-120

Duplicate (BGH1049-DUP1)

Source: 2308560-01

Prepared: 08/25/23 Analyzed: 08/28/23

Arsenic	1.11	0.200	mg/kg dry	1.13	1.70	20
Barium	263	0.400	"	303	14.3	20
Cadmium	0.318	0.200	"	0.399	22.4	20
Copper	2.47	0.400	"	2.56	3.58	20
Lead	10.3	0.200	"	11.7	12.7	20
Nickel	2.28	0.400	"	2.22	2.69	20
Silver	0.0479	0.0200	"	0.0525	9.20	20
Zinc	9.57	0.400	"	9.31	2.75	20
Selenium	0.209	0.260	"	0.265	23.4	200

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH1049 - EPA 3050B

Matrix Spike (BGH1049-MS1)		Source: 2308560-01			Prepared: 08/25/23		Analyzed: 08/28/23				
Arsenic	14.6	0.200	mg/kg dry	57.7	1.13	23.4	75-125				QM-01
Barium	369	0.400	"	57.7	303	115	75-125				
Cadmium	3.49	0.200	"	2.88	0.399	107	75-125				
Copper	15.9	0.400	"	57.7	2.56	23.2	75-125				QM-01
Lead	36.2	0.200	"	28.8	11.7	85.1	75-125				
Nickel	16.0	0.400	"	57.7	2.22	23.9	75-125				QM-01
Silver	3.02	0.0200	"	2.88	0.0525	103	75-125				
Zinc	23.3	0.400	"	57.7	9.31	24.3	75-125				QM-01

Matrix Spike Dup (BGH1049-MSD1)		Source: 2308560-01			Prepared: 08/25/23		Analyzed: 08/28/23				
Arsenic	14.8	0.200	mg/kg dry	57.7	1.13	23.8	75-125	1.53	25		QM-01
Barium	365	0.400	"	57.7	303	108	75-125	1.11	25		
Cadmium	3.50	0.200	"	2.88	0.399	108	75-125	0.380	25		
Copper	16.0	0.400	"	57.7	2.56	23.3	75-125	0.574	25		QM-01
Lead	36.2	0.200	"	28.8	11.7	84.8	75-125	0.237	25		
Nickel	16.2	0.400	"	57.7	2.22	24.2	75-125	0.817	25		QM-01
Silver	3.01	0.0200	"	2.88	0.0525	102	75-125	0.516	25		
Zinc	23.6	0.400	"	57.7	9.31	24.7	75-125	1.05	25		QM-01

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGH1051 - 3060A Mod

Blank (BGH1051-BLK1)

Prepared & Analyzed: 08/25/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH1051-BS1)

Prepared & Analyzed: 08/25/23

Chromium, Hexavalent 25.9 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BGH1051-DUP1)

Source: 2308560-01

Prepared & Analyzed: 08/25/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH1051-MS1)

Source: 2308560-01

Prepared & Analyzed: 08/25/23

Chromium, Hexavalent 36.8 0.30 mg/kg dry 36.0 ND 102 75-125

Matrix Spike Dup (BGH1051-MSD1)

Source: 2308560-01

Prepared & Analyzed: 08/25/23

Chromium, Hexavalent 36.4 0.30 mg/kg dry 36.0 ND 101 75-125 0.985 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

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

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

Batch BGH1021 - General Preparation

Blank (BGH1021-BLK1)

Prepared: 08/24/23 Analyzed: 08/26/23

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

LCS (BGH1021-BS1)

Prepared: 08/24/23 Analyzed: 08/26/23

Calcium	5.09	0.0500	mg/L wet	5.00	102	70-130
Magnesium	5.22	0.0500	"	5.00	104	70-130
Sodium	5.33	0.0500	"	5.00	107	70-130

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	Project: Noble - WPF III	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	09/05/23 11:08

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

Summit Scientific

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

Batch BGH1028 - General Preparation

Duplicate (BGH1028-DUP1)	Source: 2308521-01			Prepared & Analyzed: 08/25/23						
% Solids	79.8		%		80.0			0.274	20	

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

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

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

Batch BGH1035 - General Preparation

Blank (BGH1035-BLK1)

Prepared & Analyzed: 08/25/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH1035-BS1)

Prepared & Analyzed: 08/25/23

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

Duplicate (BGH1035-DUP1)

Source: 2308482-01

Prepared & Analyzed: 08/25/23

Specific Conductance (EC) 0.426 0.0100 mmhos/cm 0.426 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

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

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

Batch BGH1036 - General Preparation

LCS (BGH1036-BS1)

Prepared & Analyzed: 08/25/23

pH	9.25	pH Units	9.18	101	95-105
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Duplicate (BGH1036-DUP1)

Source: 2308482-01

Prepared & Analyzed: 08/25/23

pH	7.97	pH Units	7.97	0.00	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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/05/23 11:08

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

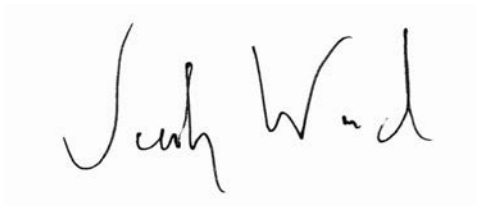
303.277.9310

September 18, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - WPF III
Work Order #2309124

Enclosed are the results of analyses for samples received by Summit Scientific on 09/08/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2B02	2309124-01	Soil	09/08/23 09:10	09/08/23 16:30
2S02	2309124-02	Soil	09/08/23 09:15	09/08/23 16:30
2W02	2309124-03	Soil	09/08/23 13:10	09/08/23 16:30
2N02	2309124-04	Soil	09/08/23 13:15	09/08/23 16:30
2B03	2309124-05	Soil	09/08/23 14:00	09/08/23 16:30

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page	of
2309124		

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address: 8305 6th Street		E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip: Wellington, CO, 80549			AFE#: UWRWE - A2740 - ARN
Phone: 603-477-6907		Project Name: WPF III	PO/Billing Codes:
Sampler Name: Aaron Otilar		Project Number:	Contact: Dan Peterson

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 915	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Cl, SO4	Metals (915-1)				
1	2302	9/18/23	0910	2			2			X			X	X	X	X		X				
2	2502		0915																			
3	2W02		1310																			
4	2N02		1315																			
5	2303		1400																			
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
	9/18/23 1600	Summit North Dropbox	9/18/23 1600	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
52	9/23 1630		9/23 1630	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 94		Corrected Temperature		IR gun #:	HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2309124Client: Tremont Client Project ID: WPF-IIIShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.6 Thermometer # 1

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

Custodian Printed Name

Date/Time

AB

9/8/23

2309124



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/18/23 10:14

2B02
2309124-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0216	09/08/23	09/09/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0460	115 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0215	09/08/23	09/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.2	89.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2B02
2309124-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGI0221	09/09/23	09/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0271	81.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.392	0.0100	mg/L	1	BGI0224	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
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2B02
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Total Metals by EPA 6020B

Arsenic	4.39	0.200	mg/kg dry	1	BGI0233	09/11/23	09/12/23	EPA 6020B
Barium	151	0.400	"	"	"	"	"	"
Cadmium	0.318	0.200	"	"	"	"	"	"
Copper	5.63	0.400	"	"	"	"	"	"
Lead	10.3	0.200	"	"	"	"	"	"
Nickel	7.39	0.400	"	"	"	"	"	"
Silver	0.0401	0.0200	"	"	"	"	"	"
Zinc	24.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0240	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	314	0.0619	mg/L dry	1	BGI0235	09/11/23	09/12/23	EPA 6020B	
Magnesium	42.2	0.0619	"	"	"	"	"	"	
Sodium	135	0.0619	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.90	0.00100	units	1	BGI0379	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
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2B02
2309124-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.8	%	1	BGI0223	09/11/23	09/11/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.82	0.0100	mmhos/cm	1	BGI0251	09/11/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BGI0252	09/11/23	09/12/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2S02
2309124-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0216	09/08/23	09/09/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0443	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0465	116 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0215	09/08/23	09/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.8	94.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - WPF III

Project Number: [none]
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Reported:
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2S02
2309124-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGI0221	09/09/23	09/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.393	0.0100	mg/L	1	BGI0224	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project Number: [none]
Project Manager: Paul Henchan

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2S02
2309124-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	4.31	0.200	mg/kg dry	1	BGI0233	09/11/23	09/12/23	EPA 6020B
Barium	301	0.400	"	"	"	"	"	"
Cadmium	0.504	0.200	"	"	"	"	"	"
Copper	7.58	0.400	"	"	"	"	"	"
Lead	13.0	0.200	"	"	"	"	"	"
Nickel	6.50	0.400	"	"	"	"	"	"
Silver	0.0484	0.0200	"	"	"	"	"	"
Zinc	27.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0240	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	184	0.0720	mg/L dry	1	BGI0235	09/11/23	09/12/23	EPA 6020B	
Magnesium	39.2	0.0720	"	"	"	"	"	"	
Sodium	287	0.0720	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.01	0.00100	units	1	BGI0379	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: [none]
Project Manager: Paul Henchan

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2S02
2309124-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	69.5	%	1	BGI0223	09/11/23	09/11/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.70	0.0100	mmhos/cm	1	BGI0251	09/11/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.53		pH Units	1	BGI0252	09/11/23	09/12/23	EPA 9045D	

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/18/23 10:14

2W02
2309124-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0216	09/08/23	09/09/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0215	09/08/23	09/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.4	99.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2W02
2309124-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0221	09/09/23	09/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0190	57.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0218	65.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.430	0.0100	mg/L	1	BGI0224	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2W02
2309124-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	3.54	0.200	mg/kg dry	1	BGI0233	09/11/23	09/12/23	EPA 6020B
Barium	298	0.400	"	"	"	"	"	"
Cadmium	0.526	0.200	"	"	"	"	"	"
Copper	6.86	0.400	"	"	"	"	"	"
Lead	13.6	0.200	"	"	"	"	"	"
Nickel	6.52	0.400	"	"	"	"	"	"
Silver	0.0703	0.0200	"	"	"	"	"	"
Zinc	31.0	0.400	"	"	"	"	"	"
Selenium	0.301	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0240	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.4	0.0703	mg/L dry	1	BGI0235	09/11/23	09/12/23	EPA 6020B	
Magnesium	14.7	0.0703	"	"	"	"	"	"	
Sodium	171	0.0703	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.97	0.00100	units	1	BGI0379	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2W02
2309124-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	71.1	%	1	BGI0223	09/11/23	09/11/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.870	0.0100	mmhos/cm	1	BGI0251	09/11/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BGI0252	09/11/23	09/12/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2N02
2309124-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.015	0.0020	mg/kg	1	BGI0216	09/08/23	09/09/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.062	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.27	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.10	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.030	0.0050	"	"	"	"	"	"	
Naphthalene	0.0051	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	21	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0398	99.4 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0337	84.2 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0710	177 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0215	09/08/23	09/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	14.4	115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2N02
2309124-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0221	09/09/23	09/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0104	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0221	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0497	0.00500	"	"	"	"	"	"	

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0223	66.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.651	0.0100	mg/L	1	BGI0224	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 13:15**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2N02
2309124-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.88	0.200	mg/kg dry	1	BGI0233	09/11/23	09/12/23	EPA 6020B
Barium	258	0.400	"	"	"	"	"	"
Cadmium	0.568	0.200	"	"	"	"	"	"
Copper	9.06	0.400	"	"	"	"	"	"
Lead	14.5	0.200	"	"	"	"	"	"
Nickel	6.93	0.400	"	"	"	"	"	"
Silver	0.0646	0.0200	"	"	"	"	"	"
Zinc	30.3	0.400	"	"	"	"	"	"
Selenium	0.320	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0240	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	81.4	0.0708	mg/L dry	1	BGI0235	09/11/23	09/12/23	EPA 6020B	
Magnesium	12.2	0.0708	"	"	"	"	"	"	
Sodium	164	0.0708	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.48	0.00100	units	1	BGI0379	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 13:15**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2N02
2309124-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	70.6	%	1	BGI0223	09/11/23	09/11/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.718	0.0100	mmhos/cm	1	BGI0251	09/11/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BGI0252	09/11/23	09/12/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2B03
2309124-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0216	09/08/23	09/09/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0428	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0452	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0434	109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0215	09/08/23	09/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.2	97.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2B03
2309124-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0221	09/09/23	09/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0140	41.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.362	0.0100	mg/L	1	BGI0224	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2B03
2309124-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.48	0.200	mg/kg dry	1	BGI0233	09/11/23	09/12/23	EPA 6020B
Barium	164	0.400	"	"	"	"	"	"
Cadmium	0.372	0.200	"	"	"	"	"	"
Copper	6.11	0.400	"	"	"	"	"	"
Lead	10.0	0.200	"	"	"	"	"	"
Nickel	6.81	0.400	"	"	"	"	"	"
Silver	0.0645	0.0200	"	"	"	"	"	"
Zinc	31.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0240	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	112	0.0645	mg/L dry	1	BGI0235	09/11/23	09/12/23	EPA 6020B	
Magnesium	20.3	0.0645	"	"	"	"	"	"	
Sodium	188	0.0645	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.29	0.00100	units	1	BGI0379	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 14:00**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

2B03
2309124-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	77.6	%	1	BGI0223	09/11/23	09/11/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.22	0.0100	mmhos/cm	1	BGI0251	09/11/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BGI0252	09/11/23	09/12/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGI0216 - EPA 5030 Soil MS

Blank (BGI0216-BLK1)

Prepared: 09/08/23 Analyzed: 09/09/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0468		"	0.0400		117	50-150			
Surrogate: 4-Bromofluorobenzene	0.0438		"	0.0400		110	50-150			

LCS (BGI0216-BS1)

Prepared: 09/08/23 Analyzed: 09/09/23

Benzene	0.0936	0.0020	mg/kg	0.100		93.6	70-130			
Toluene	0.121	0.0050	"	0.100		121	70-130			
Ethylbenzene	0.103	0.0050	"	0.100		103	70-130			
m,p-Xylene	0.211	0.010	"	0.200		105	70-130			
o-Xylene	0.0950	0.0050	"	0.100		95.0	70-130			
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
Naphthalene	0.0749	0.0038	"	0.100		74.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0427		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0482		"	0.0400		120	50-150			
Surrogate: 4-Bromofluorobenzene	0.0425		"	0.0400		106	50-150			

Matrix Spike (BGI0216-MS1)

Source: 2309127-01

Prepared: 09/08/23 Analyzed: 09/09/23

Benzene	0.0860	0.0020	mg/kg	0.100	ND	86.0	70-130			
Toluene	0.104	0.0050	"	0.100	ND	104	70-130			
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
m,p-Xylene	0.202	0.010	"	0.200	ND	101	70-130			
o-Xylene	0.0886	0.0050	"	0.100	ND	88.6	70-130			
1,2,4-Trimethylbenzene	0.0888	0.0050	"	0.100	ND	88.8	70-130			
1,3,5-Trimethylbenzene	0.0918	0.0050	"	0.100	ND	91.8	70-130			
Naphthalene	0.0728	0.0038	"	0.100	ND	72.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0449		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	50-150			

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Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGI0216 - EPA 5030 Soil MS

Matrix Spike Dup (BGI0216-MSD1)

Source: 2309127-01

Prepared: 09/08/23 Analyzed: 09/09/23

Benzene	0.0875	0.0020	mg/kg	0.100	ND	87.5	70-130	1.73	30	
Toluene	0.108	0.0050	"	0.100	ND	108	70-130	3.17	30	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	0.658	30	
m,p-Xylene	0.203	0.010	"	0.200	ND	102	70-130	0.473	30	
o-Xylene	0.0903	0.0050	"	0.100	ND	90.3	70-130	1.84	30	
1,2,4-Trimethylbenzene	0.0937	0.0050	"	0.100	ND	93.7	70-130	5.36	30	
1,3,5-Trimethylbenzene	0.0952	0.0050	"	0.100	ND	95.2	70-130	3.66	30	
Naphthalene	0.0800	0.0038	"	0.100	ND	80.0	70-130	9.50	30	
Surrogate: 1,2-Dichloroethane-d4	0.0432		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0449		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGI0215 - EPA 3550A

Blank (BGI0215-BLK1)

Prepared: 09/08/23 Analyzed: 09/09/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.5		"	12.5		99.6	30-150			

LCS (BGI0215-BS1)

Prepared: 09/08/23 Analyzed: 09/09/23

C10-C28 (DRO)	368	50	mg/kg	500		73.7	70-130			
Surrogate: o-Terphenyl	12.2		"	12.5		97.3	30-150			

Matrix Spike (BGI0215-MS1)

Source: 2309124-01

Prepared: 09/08/23 Analyzed: 09/09/23

C10-C28 (DRO)	363	50	mg/kg	500	14.4	69.8	70-130			QM-07
Surrogate: o-Terphenyl	12.4		"	12.5		99.2	30-150			

Matrix Spike Dup (BGI0215-MSD1)

Source: 2309124-01

Prepared: 09/08/23 Analyzed: 09/09/23

C10-C28 (DRO)	355	50	mg/kg	500	14.4	68.1	70-130	2.35	20	QM-07
Surrogate: o-Terphenyl	12.2		"	12.5		97.9	30-150			

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0221 - EPA 5030 Soil MS

Blank (BGI0221-BLK1)

Prepared: 09/09/23 Analyzed: 09/11/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0243		"	0.0333		72.9	40-150			
Surrogate: Fluoranthene-d10	0.0341		"	0.0333		102	40-150			

LCS (BGI0221-BS1)

Prepared: 09/09/23 Analyzed: 09/11/23

Acenaphthene	0.0322	0.00500	mg/kg	0.0333		96.5	31-137			
Anthracene	0.0331	0.00500	"	0.0333		99.3	30-120			
Benzo (a) anthracene	0.0301	0.00500	"	0.0333		90.4	30-120			
Benzo (a) pyrene	0.0308	0.00500	"	0.0333		92.3	30-120			
Benzo (b) fluoranthene	0.0306	0.00500	"	0.0333		91.7	30-120			
Benzo (k) fluoranthene	0.0319	0.00500	"	0.0333		95.8	30-120			
Chrysene	0.0316	0.00500	"	0.0333		94.8	30-120			
Dibenz (a,h) anthracene	0.0242	0.00500	"	0.0333		72.5	30-120			
Fluoranthene	0.0335	0.00500	"	0.0333		101	30-120			
Fluorene	0.0312	0.00500	"	0.0333		93.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0234	0.00500	"	0.0333		70.1	30-120			
Pyrene	0.0312	0.00500	"	0.0333		93.7	35-142			
1-Methylnaphthalene	0.0269	0.00500	"	0.0333		80.8	35-142			
2-Methylnaphthalene	0.0374	0.00500	"	0.0333		112	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0284		"	0.0333		85.1	40-150			
Surrogate: Fluoranthene-d10	0.0344		"	0.0333		103	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0221 - EPA 5030 Soil MS

Matrix Spike (BGI0221-MS1)

Source: 2309124-01

Prepared: 09/09/23 Analyzed: 09/11/23

Acenaphthene	0.0226	0.00500	mg/kg	0.0333	ND	67.9	31-137		
Anthracene	0.0229	0.00500	"	0.0333	ND	68.8	30-120		
Benzo (a) anthracene	0.0228	0.00500	"	0.0333	ND	68.4	30-120		
Benzo (a) pyrene	0.0221	0.00500	"	0.0333	ND	66.4	30-120		
Benzo (b) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	30-120		
Benzo (k) fluoranthene	0.0222	0.00500	"	0.0333	ND	66.6	30-120		
Chrysene	0.0226	0.00500	"	0.0333	ND	67.9	30-120		
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333	ND	52.1	30-120		
Fluoranthene	0.0243	0.00500	"	0.0333	ND	72.8	30-120		
Fluorene	0.0226	0.00500	"	0.0333	ND	67.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.3	30-120		
Pyrene	0.0234	0.00500	"	0.0333	ND	70.1	35-142		
1-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.4	15-130		
2-Methylnaphthalene	0.0232	0.00500	"	0.0333	ND	69.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0206		"	0.0333		61.9	40-150		
Surrogate: Fluoranthene-d10	0.0251		"	0.0333		75.4	40-150		

Matrix Spike Dup (BGI0221-MSD1)

Source: 2309124-01

Prepared: 09/09/23 Analyzed: 09/11/23

Acenaphthene	0.0242	0.00500	mg/kg	0.0333	ND	72.5	31-137	6.45	30
Anthracene	0.0252	0.00500	"	0.0333	ND	75.7	30-120	9.51	30
Benzo (a) anthracene	0.0242	0.00500	"	0.0333	ND	72.8	30-120	6.18	30
Benzo (a) pyrene	0.0238	0.00500	"	0.0333	ND	71.3	30-120	7.07	30
Benzo (b) fluoranthene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	7.21	30
Benzo (k) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.3	30-120	5.42	30
Chrysene	0.0237	0.00500	"	0.0333	ND	71.0	30-120	4.53	30
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120	8.22	30
Fluoranthene	0.0260	0.00500	"	0.0333	ND	77.9	30-120	6.77	30
Fluorene	0.0242	0.00500	"	0.0333	ND	72.5	30-120	6.55	30
Indeno (1,2,3-cd) pyrene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	6.03	30
Pyrene	0.0240	0.00500	"	0.0333	ND	72.0	35-142	2.57	30
1-Methylnaphthalene	0.0217	0.00500	"	0.0333	ND	65.0	15-130	5.66	50
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.4	15-130	1.66	50
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333		64.8	40-150		
Surrogate: Fluoranthene-d10	0.0272		"	0.0333		81.6	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

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

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

Batch BGI0224 - EPA 3050B

Blank (BGI0224-BLK1)

Prepared & Analyzed: 09/11/23

Boron ND 0.0100 mg/L

LCS (BGI0224-BS1)

Prepared & Analyzed: 09/11/23

Boron 5.08 0.0100 mg/L 5.00 102 80-120

Duplicate (BGI0224-DUP1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

Boron 0.359 0.0100 mg/L 0.392 8.79 20

Matrix Spike (BGI0224-MS1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

Boron 5.85 0.0100 mg/L 5.00 0.392 109 75-125

Matrix Spike Dup (BGI0224-MSD1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

Boron 5.76 0.0100 mg/L 5.00 0.392 107 75-125 1.59 25

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGI0233 - EPA 3050B

Blank (BGI0233-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

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

LCS (BGI0233-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Arsenic	43.2	0.200	mg/kg wet	40.0	108	80-120
Barium	43.6	0.400	"	40.0	109	80-120
Cadmium	1.68	0.200	"	2.00	83.9	80-120
Copper	41.4	0.400	"	40.0	104	80-120
Lead	21.5	0.200	"	20.0	107	80-120
Nickel	43.9	0.400	"	40.0	110	80-120
Silver	1.65	0.0200	"	2.00	82.3	80-120
Zinc	47.5	0.400	"	40.0	119	80-120

Duplicate (BGI0233-DUP1)

Source: 2309101-01

Prepared: 09/11/23 Analyzed: 09/12/23

Arsenic	7.13	0.200	mg/kg dry	10.4	37.1	20	QR-04
Barium	53.4	0.400	"	63.1	16.6	20	
Cadmium	0.523	0.200	"	0.857	48.5	20	QR-01
Copper	9.69	0.400	"	9.44	2.62	20	
Lead	6500	0.200	"	6160	5.42	20	
Nickel	6.82	0.400	"	7.64	11.3	20	
Silver	0.146	0.0200	"	0.152	3.66	20	
Zinc	56.7	0.400	"	39.3	36.3	20	QR-04
Selenium	0.286	0.260	"	0.373	26.2	200	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGI0233 - EPA 3050B

Matrix Spike (BGI0233-MS1)

Source: 2309101-01

Prepared: 09/11/23 Analyzed: 09/12/23

Arsenic	33.9	0.200	mg/kg dry	49.6	10.4	47.5	75-125			QM-07
Barium	63.8	0.400	"	49.6	63.1	1.51	75-125			QM-07
Cadmium	2.02	0.200	"	2.48	0.857	46.8	75-125			QM-07
Copper	25.7	0.400	"	49.6	9.44	32.8	75-125			QM-07
Lead	5030	0.200	"	24.8	6160	NR	75-125			QM-07
Nickel	23.9	0.400	"	49.6	7.64	32.9	75-125			QM-07
Silver	1.65	0.0200	"	2.48	0.152	60.5	75-125			QM-07
Zinc	69.3	0.400	"	49.6	39.3	60.6	75-125			QM-07

Matrix Spike Dup (BGI0233-MSD1)

Source: 2309101-01

Prepared: 09/11/23 Analyzed: 09/12/23

Arsenic	57.7	0.200	mg/kg dry	49.6	10.4	95.6	75-125	52.0	25	QM-07
Barium	107	0.400	"	49.6	63.1	89.6	75-125	51.0	25	QM-07
Cadmium	3.49	0.200	"	2.48	0.857	106	75-125	53.4	25	QM-07
Copper	37.7	0.400	"	49.6	9.44	56.9	75-125	37.7	25	QM-07
Lead	9370	0.200	"	24.8	6160	NR	75-125	60.3	25	QM-07
Nickel	34.6	0.400	"	49.6	7.64	54.5	75-125	36.6	25	QM-07
Silver	2.91	0.0200	"	2.48	0.152	111	75-125	55.3	25	QM-07
Zinc	73.3	0.400	"	49.6	39.3	68.7	75-125	5.60	25	QM-07

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGI0240 - 3060A Mod

Blank (BGI0240-BLK1)

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0240-BS1)

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 25.8 0.30 mg/kg wet 25.0 103 80-120

LCS (BGI0240-BS2)

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 103 80-120

LCS (BGI0240-BS3)

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 25.5 0.30 mg/kg wet 25.0 102 80-120

LCS (BGI0240-BS4)

Prepared & Analyzed: 09/11/23

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

Duplicate (BGI0240-DUP1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0240-MS1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 34.7 0.30 mg/kg dry 31.0 ND 112 75-125

Matrix Spike Dup (BGI0240-MSD1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 33.0 0.30 mg/kg dry 31.0 ND 107 75-125 5.12 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

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

Summit Scientific

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

Batch BGI0235 - General Preparation

Blank (BGI0235-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

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

LCS (BGI0235-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Calcium	5.32	0.0500	mg/L wet	5.00	106	70-130
Magnesium	5.47	0.0500	"	5.00	109	70-130
Sodium	5.44	0.0500	"	5.00	109	70-130

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

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

Summit Scientific

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

Batch BGI0223 - General Preparation

Duplicate (BGI0223-DUP1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

% Solids	81.1	%		80.8		0.437	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

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

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

Batch BGI0251 - General Preparation

Blank (BGI0251-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0251-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

LCS (BGI0251-BS2)

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.9 95-105

LCS (BGI0251-BS3)

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 98.2 95-105

LCS (BGI0251-BS4)

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) 0.145 0.0100 mmhos/cm 0.150 96.9 95-105

Duplicate (BGI0251-DUP1)

Source: 2309124-01

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) 1.82 0.0100 mmhos/cm 1.82 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

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

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

Batch BGI0252 - General Preparation

LCS (BGI0252-BS1)		Prepared: 09/11/23 Analyzed: 09/12/23								
pH	9.19		pH Units	9.18		100	95-105			
LCS (BGI0252-BS2)		Prepared: 09/11/23 Analyzed: 09/12/23								
pH	9.35		pH Units	9.18		102	95-105			
LCS (BGI0252-BS3)		Prepared: 09/11/23 Analyzed: 09/12/23								
pH	9.33		pH Units	9.18		102	95-105			
LCS (BGI0252-BS4)		Prepared: 09/11/23 Analyzed: 09/12/23								
pH	9.31		pH Units	9.18		101	95-105			
Duplicate (BGI0252-DUP1)		Source: 2309124-01		Prepared: 09/11/23 Analyzed: 09/12/23						
pH	7.82		pH Units		7.82			0.00	20	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:14

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

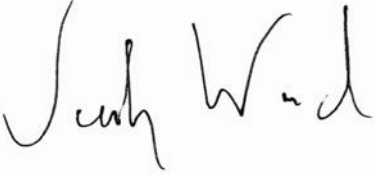
303.277.9310

September 18, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - WPF III
Work Order #2309125

Enclosed are the results of analyses for samples received by Summit Scientific on 09/08/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2W01@11'	2309125-01	Soil	09/06/23 14:00	09/08/23 16:30
2B01@12'	2309125-02	Soil	09/07/23 13:00	09/08/23 16:30
2S01@10'	2309125-03	Soil	09/07/23 13:05	09/08/23 16:30
2N01@10'	2309125-04	Soil	09/07/23 13:10	09/08/23 16:30

Summit Scientific

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


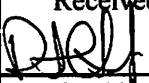
SUMMIT SCIENTIFIC

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

Lab ID	Page	of
2309125		

Send Data To:		Send Invoice To:
Client: Fremont Environmental Inc.	Project Manager: Paul Henehan	Company: Noble Energy Inc.
Address: 8305 6th Steet	E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG, ChrisL, StanG, etc.	Project Name/Location: WPF III
City/State/Zip: Wellington, CO, 80549	@fremontenv.com	AFE#:
Phone: (970) 213-7488	Project Name: WPF III	PO/Billing Codes: UWRWE-A2740-ABN
Sampler Name: Chris Lattes (chrisl@fremontenv.com)	Project Number:	Contact: Dan Peterson

					Preservative				Matrix			Analysis Requested							Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TPH (GRO/DRO/ORO)	BTEX, TMB's, Naphtlene	PAH's	pH, EC, SAR, Boron	Table 915 Metals	TDS, Chloride, Sulfate	HOLD
1	2W81 @ 11'	9/6/23	14:00	2			X			X			X	X	X	X	X		
2	2B01 @ 12'	9/7/23	13:00	1															
3	2S01 @ 10'	1	13:05	1															
4	2N01 @ 10'	1	13:10	1															
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: 	Date/Time: 9/7/23 1655	Received by: Summit North	Date/Time: 9/7/23 1655	TAT Business Days	Field DO	Notes: WPF III Excavation
Relinquished by: S2	Date/Time: 9/8/23 1630	Received by: 	Date/Time: 9/8/23 1630	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: 9.6	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2309125Client: Fremont Client Project ID: WPF IIIShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil ☒ Solid ☐ Water ☐ Other ☐Temp (°C) 9.6Thermometer # 1

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

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

9/8/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2W01@11'
2309125-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGI0216	09/08/23	09/09/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0438	109 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGI0215	09/08/23	09/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.7	93.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2W01@11'
2309125-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0230	09/11/23	09/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0304	91.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.390	0.0100	mg/L	1	BGI0224	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/06/23 14:00**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2W01@11'
2309125-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.70	0.200	mg/kg dry	1	BGI0233	09/11/23	09/12/23	EPA 6020B
Barium	229	0.400	"	"	"	"	"	"
Cadmium	0.508	0.200	"	"	"	"	"	"
Copper	7.02	0.400	"	"	"	"	"	"
Lead	14.1	0.200	"	"	"	"	"	"
Nickel	6.41	0.400	"	"	"	"	"	"
Silver	0.0610	0.0200	"	"	"	"	"	"
Zinc	30.8	0.400	"	"	"	"	"	"
Selenium	0.363	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0245	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	75.5	0.0700	mg/L dry	1	BGI0235	09/11/23	09/12/23	EPA 6020B	
Magnesium	21.4	0.0700	"	"	"	"	"	"	
Sodium	173	0.0700	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.53	0.00100	units	1	BGI0379	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/06/23 14:00**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2W01@11'
2309125-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	71.4	%	1	BGI0223	09/11/23	09/11/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.975	0.0100	mmhos/cm	1	BGI0251	09/11/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/06/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BGI0252	09/11/23	09/12/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2B01@12'
2309125-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0216	09/08/23	09/09/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0434	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0445	111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0215	09/08/23	09/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.0	95.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2B01@12'
2309125-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGI0230	09/11/23	09/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0296	88.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	67.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.508	0.0100	mg/L	1	BGI0224	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2B01@12'
2309125-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.13	0.200	mg/kg dry	1	BGI0233	09/11/23	09/12/23	EPA 6020B
Barium	192	0.400	"	"	"	"	"	"
Cadmium	0.361	0.200	"	"	"	"	"	"
Copper	7.75	0.400	"	"	"	"	"	"
Lead	11.3	0.200	"	"	"	"	"	"
Nickel	8.34	0.400	"	"	"	"	"	"
Silver	0.0760	0.0200	"	"	"	"	"	"
Zinc	32.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0245	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	283	0.0674	mg/L dry	1	BGI0235	09/11/23	09/12/23	EPA 6020B	
Magnesium	45.3	0.0674	"	"	"	"	"	"	
Sodium	185	0.0674	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.69	0.00100	units	1	BGI0379	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/07/23 13:00**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2B01@12'
2309125-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	74.2	%	1	BGI0223	09/11/23	09/11/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.76	0.0100	mmhos/cm	1	BGI0251	09/11/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/07/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.66		pH Units	1	BGI0252	09/11/23	09/12/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2S01@10'
2309125-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0216	09/08/23	09/09/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0424	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0437	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0215	09/08/23	09/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.4	91.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2S01@10'
2309125-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGI0230	09/11/23	09/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0206	61.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0150	45.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.386	0.0100	mg/L	1	BGI0224	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2S01@10'
2309125-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.82	0.200	mg/kg dry	1	BGI0233	09/11/23	09/12/23	EPA 6020B	
Barium	313	0.400	"	"	"	"	"	"	
Cadmium	0.550	0.200	"	"	"	"	"	"	
Copper	6.53	0.400	"	"	"	"	"	"	
Lead	14.4	0.200	"	"	"	"	"	"	
Nickel	6.38	0.400	"	"	"	"	"	"	
Silver	0.0628	0.0200	"	"	"	"	"	"	
Zinc	28.3	0.400	"	"	"	"	"	"	
Selenium	0.339	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0245	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	88.2	0.0701	mg/L dry	1	BGI0235	09/11/23	09/12/23	EPA 6020B	
Magnesium	21.1	0.0701	"	"	"	"	"	"	
Sodium	215	0.0701	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.34	0.00100	units	1	BGI0379	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/07/23 13:05**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2S01@10'
2309125-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	71.3	%	1	BGI0223	09/11/23	09/11/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	1	BGI0251	09/11/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/07/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BGI0252	09/11/23	09/12/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2N01@10'
2309125-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.078	0.0020	mg/kg	1	BGI0216	09/08/23	09/09/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	4.3	0.050	"	10	"	"	"	"	
Xylenes (total)	20	0.10	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	9.6	0.050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	4.8	0.050	"	"	"	"	"	"	
Naphthalene	0.29	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	750	5.0	"	10	"	"	"	"	E

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0603	151 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0771	193 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	430	50	mg/kg	1	BGI0215	09/08/23	09/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.9	111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2N01@10'
2309125-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0230	09/11/23	09/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.475	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.660	0.00500	"	"	"	"	"	"	E

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0406	122 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.399	0.0100	mg/L	1	BGI0224	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/07/23 13:10**

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

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2N01@10'
2309125-04 (Soil)

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Total Metals by EPA 6020B

Arsenic	6.91	0.200	mg/kg dry	1	BGI0233	09/11/23	09/12/23	EPA 6020B
Barium	270	0.400	"	"	"	"	"	"
Cadmium	0.575	0.200	"	"	"	"	"	"
Copper	9.58	0.400	"	"	"	"	"	"
Lead	15.4	0.200	"	"	"	"	"	"
Nickel	7.41	0.400	"	"	"	"	"	"
Silver	0.0590	0.0200	"	"	"	"	"	"
Zinc	31.0	0.400	"	"	"	"	"	"
Selenium	0.614	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0245	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	201	0.0724	mg/L dry	1	BGI0235	09/11/23	09/12/23	EPA 6020B	
Magnesium	34.6	0.0724	"	"	"	"	"	"	
Sodium	166	0.0724	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.85	0.00100	units	1	BGI0379	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

2N01@10'
2309125-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	69.1	%	1	BGI0223	09/11/23	09/11/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.559	0.0100	mmhos/cm	1	BGI0251	09/11/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/07/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.73		pH Units	1	BGI0252	09/11/23	09/12/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGI0216 - EPA 5030 Soil MS

Blank (BGI0216-BLK1)

Prepared: 09/08/23 Analyzed: 09/09/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0468		"	0.0400		117	50-150			
Surrogate: 4-Bromofluorobenzene	0.0438		"	0.0400		110	50-150			

LCS (BGI0216-BS1)

Prepared: 09/08/23 Analyzed: 09/09/23

Benzene	0.0936	0.0020	mg/kg	0.100		93.6	70-130			
Toluene	0.121	0.0050	"	0.100		121	70-130			
Ethylbenzene	0.103	0.0050	"	0.100		103	70-130			
m,p-Xylene	0.211	0.010	"	0.200		105	70-130			
o-Xylene	0.0950	0.0050	"	0.100		95.0	70-130			
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
Naphthalene	0.0749	0.0038	"	0.100		74.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0427		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0482		"	0.0400		120	50-150			
Surrogate: 4-Bromofluorobenzene	0.0425		"	0.0400		106	50-150			

Matrix Spike (BGI0216-MS1)

Source: 2309127-01

Prepared: 09/08/23 Analyzed: 09/09/23

Benzene	0.0860	0.0020	mg/kg	0.100	ND	86.0	70-130			
Toluene	0.104	0.0050	"	0.100	ND	104	70-130			
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
m,p-Xylene	0.202	0.010	"	0.200	ND	101	70-130			
o-Xylene	0.0886	0.0050	"	0.100	ND	88.6	70-130			
1,2,4-Trimethylbenzene	0.0888	0.0050	"	0.100	ND	88.8	70-130			
1,3,5-Trimethylbenzene	0.0918	0.0050	"	0.100	ND	91.8	70-130			
Naphthalene	0.0728	0.0038	"	0.100	ND	72.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0449		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	50-150			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGI0216 - EPA 5030 Soil MS

Matrix Spike Dup (BGI0216-MSD1)

Source: 2309127-01

Prepared: 09/08/23 Analyzed: 09/09/23

Benzene	0.0875	0.0020	mg/kg	0.100	ND	87.5	70-130	1.73	30	
Toluene	0.108	0.0050	"	0.100	ND	108	70-130	3.17	30	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	0.658	30	
m,p-Xylene	0.203	0.010	"	0.200	ND	102	70-130	0.473	30	
o-Xylene	0.0903	0.0050	"	0.100	ND	90.3	70-130	1.84	30	
1,2,4-Trimethylbenzene	0.0937	0.0050	"	0.100	ND	93.7	70-130	5.36	30	
1,3,5-Trimethylbenzene	0.0952	0.0050	"	0.100	ND	95.2	70-130	3.66	30	
Naphthalene	0.0800	0.0038	"	0.100	ND	80.0	70-130	9.50	30	
Surrogate: 1,2-Dichloroethane-d4	0.0432		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0449		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGI0215 - EPA 3550A

Blank (BGI0215-BLK1)

Prepared: 09/08/23 Analyzed: 09/09/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.5		"	12.5		99.6	30-150			

LCS (BGI0215-BS1)

Prepared: 09/08/23 Analyzed: 09/09/23

C10-C28 (DRO)	368	50	mg/kg	500		73.7	70-130			
Surrogate: o-Terphenyl	12.2		"	12.5		97.3	30-150			

Matrix Spike (BGI0215-MS1)

Source: 2309124-01

Prepared: 09/08/23 Analyzed: 09/09/23

C10-C28 (DRO)	363	50	mg/kg	500	14.4	69.8	70-130			QM-07
Surrogate: o-Terphenyl	12.4		"	12.5		99.2	30-150			

Matrix Spike Dup (BGI0215-MSD1)

Source: 2309124-01

Prepared: 09/08/23 Analyzed: 09/09/23

C10-C28 (DRO)	355	50	mg/kg	500	14.4	68.1	70-130	2.35	20	QM-07
Surrogate: o-Terphenyl	12.2		"	12.5		97.9	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0230 - EPA 5030 Soil MS

Blank (BGI0230-BLK1)

Prepared & Analyzed: 09/11/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0271		"	0.0333		81.2	40-150			
Surrogate: Fluoranthene-d10	0.0361		"	0.0333		108	40-150			

LCS (BGI0230-BS1)

Prepared & Analyzed: 09/11/23

Acenaphthene	0.0210	0.00500	mg/kg	0.0333		62.9	31-137			
Anthracene	0.0315	0.00500	"	0.0333		94.6	30-120			
Benzo (a) anthracene	0.0316	0.00500	"	0.0333		94.9	30-120			
Benzo (a) pyrene	0.0292	0.00500	"	0.0333		87.5	30-120			
Benzo (b) fluoranthene	0.0313	0.00500	"	0.0333		93.9	30-120			
Benzo (k) fluoranthene	0.0332	0.00500	"	0.0333		99.7	30-120			
Chrysene	0.0333	0.00500	"	0.0333		99.8	30-120			
Dibenz (a,h) anthracene	0.0228	0.00500	"	0.0333		68.3	30-120			
Fluoranthene	0.0326	0.00500	"	0.0333		97.8	30-120			
Fluorene	0.0178	0.00500	"	0.0333		53.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0310	0.00500	"	0.0333		92.9	30-120			
Pyrene	0.0341	0.00500	"	0.0333		102	35-142			
1-Methylnaphthalene	0.0366	0.00500	"	0.0333		110	35-142			
2-Methylnaphthalene	0.0402	0.00500	"	0.0333		121	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0383		"	0.0333		115	40-150			
Surrogate: Fluoranthene-d10	0.0322		"	0.0333		96.7	40-150			

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0230 - EPA 5030 Soil MS

Matrix Spike (BGI0230-MS1)

Source: 2309048-01

Prepared & Analyzed: 09/11/23

Acenaphthene	0.0171	0.00500	mg/kg	0.0333	ND	51.3	31-137		
Anthracene	0.0223	0.00500	"	0.0333	ND	67.0	30-120		
Benzo (a) anthracene	0.0219	0.00500	"	0.0333	ND	65.6	30-120		
Benzo (a) pyrene	0.0193	0.00500	"	0.0333	ND	57.8	30-120		
Benzo (b) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3	30-120		
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.5	30-120		
Chrysene	0.0216	0.00500	"	0.0333	ND	64.9	30-120		
Dibenz (a,h) anthracene	0.0149	0.00500	"	0.0333	ND	44.6	30-120		
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.7	30-120		
Fluorene	0.0151	0.00500	"	0.0333	ND	45.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0203	0.00500	"	0.0333	ND	60.8	30-120		
Pyrene	0.0230	0.00500	"	0.0333	ND	69.1	35-142		
1-Methylnaphthalene	0.0265	0.00500	"	0.0333	ND	79.5	15-130		
2-Methylnaphthalene	0.0281	0.00500	"	0.0333	ND	84.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0274		"	0.0333		82.0	40-150		
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.5	40-150		

Matrix Spike Dup (BGI0230-MSD1)

Source: 2309048-01

Prepared & Analyzed: 09/11/23

Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	48.8	31-137	5.14	30
Anthracene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	9.37	30
Benzo (a) anthracene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	8.85	30
Benzo (a) pyrene	0.0172	0.00500	"	0.0333	ND	51.6	30-120	11.2	30
Benzo (b) fluoranthene	0.0187	0.00500	"	0.0333	ND	56.0	30-120	9.05	30
Benzo (k) fluoranthene	0.0190	0.00500	"	0.0333	ND	56.9	30-120	11.0	30
Chrysene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	9.72	30
Dibenz (a,h) anthracene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	5.25	30
Fluoranthene	0.0197	0.00500	"	0.0333	ND	59.2	30-120	14.9	30
Fluorene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	6.80	30
Indeno (1,2,3-cd) pyrene	0.0197	0.00500	"	0.0333	ND	59.1	30-120	2.95	30
Pyrene	0.0216	0.00500	"	0.0333	ND	64.7	35-142	6.55	30
1-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.1	15-130	34.4	50
2-Methylnaphthalene	0.0201	0.00500	"	0.0333	ND	60.2	15-130	33.5	50
Surrogate: 2-Methylnaphthalene-d10	0.0213		"	0.0333		64.0	40-150		
Surrogate: Fluoranthene-d10	0.0200		"	0.0333		60.1	40-150		

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

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

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

Batch BGI0224 - EPA 3050B

Blank (BGI0224-BLK1)

Prepared & Analyzed: 09/11/23

Boron ND 0.0100 mg/L

LCS (BGI0224-BS1)

Prepared & Analyzed: 09/11/23

Boron 5.08 0.0100 mg/L 5.00 102 80-120

Duplicate (BGI0224-DUP1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

Boron 0.359 0.0100 mg/L 0.392 8.79 20

Matrix Spike (BGI0224-MS1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

Boron 5.85 0.0100 mg/L 5.00 0.392 109 75-125

Matrix Spike Dup (BGI0224-MSD1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

Boron 5.76 0.0100 mg/L 5.00 0.392 107 75-125 1.59 25

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0233 - EPA 3050B

Blank (BGI0233-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

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

LCS (BGI0233-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Arsenic	43.2	0.200	mg/kg wet	40.0	108	80-120
Barium	43.6	0.400	"	40.0	109	80-120
Cadmium	1.68	0.200	"	2.00	83.9	80-120
Copper	41.4	0.400	"	40.0	104	80-120
Lead	21.5	0.200	"	20.0	107	80-120
Nickel	43.9	0.400	"	40.0	110	80-120
Silver	1.65	0.0200	"	2.00	82.3	80-120
Zinc	47.5	0.400	"	40.0	119	80-120

Duplicate (BGI0233-DUP1)

Source: 2309101-01

Prepared: 09/11/23 Analyzed: 09/12/23

Arsenic	7.13	0.200	mg/kg dry	10.4	37.1	20	QR-04
Barium	53.4	0.400	"	63.1	16.6	20	
Cadmium	0.523	0.200	"	0.857	48.5	20	QR-01
Copper	9.69	0.400	"	9.44	2.62	20	
Lead	6500	0.200	"	6160	5.42	20	
Nickel	6.82	0.400	"	7.64	11.3	20	
Silver	0.146	0.0200	"	0.152	3.66	20	
Zinc	56.7	0.400	"	39.3	36.3	20	QR-04
Selenium	0.286	0.260	"	0.373	26.2	200	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0233 - EPA 3050B

Matrix Spike (BGI0233-MS1)		Source: 2309101-01			Prepared: 09/11/23 Analyzed: 09/12/23					
Arsenic	33.9	0.200	mg/kg dry	49.6	10.4	47.5	75-125			QM-07
Barium	63.8	0.400	"	49.6	63.1	1.51	75-125			QM-07
Cadmium	2.02	0.200	"	2.48	0.857	46.8	75-125			QM-07
Copper	25.7	0.400	"	49.6	9.44	32.8	75-125			QM-07
Lead	5030	0.200	"	24.8	6160	NR	75-125			QM-07
Nickel	23.9	0.400	"	49.6	7.64	32.9	75-125			QM-07
Silver	1.65	0.0200	"	2.48	0.152	60.5	75-125			QM-07
Zinc	69.3	0.400	"	49.6	39.3	60.6	75-125			QM-07

Matrix Spike Dup (BGI0233-MSD1)		Source: 2309101-01			Prepared: 09/11/23 Analyzed: 09/12/23					
Arsenic	57.7	0.200	mg/kg dry	49.6	10.4	95.6	75-125	52.0	25	QM-07
Barium	107	0.400	"	49.6	63.1	89.6	75-125	51.0	25	QM-07
Cadmium	3.49	0.200	"	2.48	0.857	106	75-125	53.4	25	QM-07
Copper	37.7	0.400	"	49.6	9.44	56.9	75-125	37.7	25	QM-07
Lead	9370	0.200	"	24.8	6160	NR	75-125	60.3	25	QM-07
Nickel	34.6	0.400	"	49.6	7.64	54.5	75-125	36.6	25	QM-07
Silver	2.91	0.0200	"	2.48	0.152	111	75-125	55.3	25	QM-07
Zinc	73.3	0.400	"	49.6	39.3	68.7	75-125	5.60	25	QM-07

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/18/23 10:18

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGI0245 - 3060A Mod

Blank (BGI0245-BLK1)

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0245-BS1)

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 26.2 0.30 mg/kg wet 25.0 105 80-120

Duplicate (BGI0245-DUP1)

Source: 2309125-01

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0245-MS1)

Source: 2309125-01

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 35.8 0.30 mg/kg dry 35.0 ND 102 75-125

Matrix Spike Dup (BGI0245-MSD1)

Source: 2309125-01

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 35.2 0.30 mg/kg dry 35.0 ND 101 75-125 1.77 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

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

Summit Scientific

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

Batch BGI0235 - General Preparation

Blank (BGI0235-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

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

LCS (BGI0235-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Calcium	5.32	0.0500	mg/L wet	5.00	106	70-130
Magnesium	5.47	0.0500	"	5.00	109	70-130
Sodium	5.44	0.0500	"	5.00	109	70-130

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 - WPF III

Project Number: [none]

Project Manager: Paul Henchan

Reported:

09/18/23 10:18

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

Summit Scientific

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

Batch BGI0223 - General Preparation

Duplicate (BGI0223-DUP1)

Source: 2309124-01

Prepared & Analyzed: 09/11/23

% Solids	81.1	%		80.8		0.437	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

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

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

Batch BGI0251 - General Preparation

Blank (BGI0251-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0251-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

LCS (BGI0251-BS2)

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.9 95-105

LCS (BGI0251-BS3)

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 98.2 95-105

LCS (BGI0251-BS4)

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) 0.145 0.0100 mmhos/cm 0.150 96.9 95-105

Duplicate (BGI0251-DUP1)

Source: 2309124-01

Prepared: 09/11/23 Analyzed: 09/12/23

Specific Conductance (EC) 1.82 0.0100 mmhos/cm 1.82 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

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

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

Batch BGI0252 - General Preparation

LCS (BGI0252-BS1)		Prepared: 09/11/23 Analyzed: 09/12/23								
pH	9.19		pH Units	9.18		100	95-105			
LCS (BGI0252-BS2)		Prepared: 09/11/23 Analyzed: 09/12/23								
pH	9.35		pH Units	9.18		102	95-105			
LCS (BGI0252-BS3)		Prepared: 09/11/23 Analyzed: 09/12/23								
pH	9.33		pH Units	9.18		102	95-105			
LCS (BGI0252-BS4)		Prepared: 09/11/23 Analyzed: 09/12/23								
pH	9.31		pH Units	9.18		101	95-105			
Duplicate (BGI0252-DUP1)		Source: 2309124-01		Prepared: 09/11/23 Analyzed: 09/12/23						
pH	7.82		pH Units		7.82			0.00	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 10:18

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 18, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

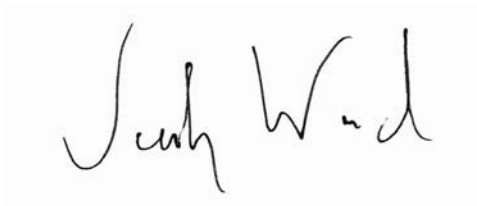
Wellington, CO 80549

RE: Noble - WPF III

Work Order #2309150

Enclosed are the results of analyses for samples received by Summit Scientific on 09/11/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2B04@12'	2309150-01	Soil	09/11/23 09:00	09/11/23 16:30
2B05@12'	2309150-02	Soil	09/11/23 09:05	09/11/23 16:30
2S03@10'	2309150-03	Soil	09/11/23 09:10	09/11/23 16:30
2S04@10'	2309150-04	Soil	09/11/23 11:45	09/11/23 16:30
2S05@10'	2309150-05	Soil	09/11/23 11:50	09/11/23 16:30
Stock03	2309150-06	Soil	09/11/23 13:00	09/11/23 16:30
Stock04	2309150-07	Soil	09/11/23 13:10	09/11/23 16:30
GW02	2309150-08	Water	09/11/23 14:25	09/11/23 16:30

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2309150	

Send Data To:		Send Invoice To:
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble
Address: 8305 6th Street	E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip: Wellington, CO, 80549		AFE#: UWRWE - A2740-ABN
Phone: 603-477-6907	Project Name: WPF III	PO/Billing Codes:
Sampler Name: Aaron Otilar	Project Number:	Contact: Dan Peterson

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEXN - 915	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Cl, SO4	Metals (915-1)	TMG's - 915			
1	2B04e12'	9/11/23	0900	2			2			X			X	X	X	X		X				
2	2B05e12'		0905																			
3	2S03e10'		0910																			
4	2S04e 10'		1145																			
5	2S05e 10'		1150											X	X							
6	Stock 03		1300										X	X	X							
7	Stock 04		1310										X	X	X							
8	GW02		1425	4			4		X				X				X		X			
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes: ★ Groundwater on 48 hour Turnaround Time
<i>Aaron Otilar</i>	9/11/23 1620	Summit North Dropbox	9/11/23 1620	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
52	9/12/23 1630	<i>[Signature]</i>	9/12/23 1630	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 11.2	Corrected Temperature <i>Se</i>	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2309150Client: FremontClient Project ID: WPF IIIShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: _____

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

11.2

Thermometer #

1

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

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

Custodian Printed Name

09-11-23

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2B04@12'
2309150-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0273	09/11/23	09/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0272	"	09/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.2	97.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2B04@12'
2309150-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0281	09/12/23	09/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.194	0.0100	mg/L	1	BGI0276	09/12/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/11/23 09:00**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2B04@12'
2309150-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.20	0.200	mg/kg dry	1	BGI0285	09/12/23	09/13/23	EPA 6020B
Barium	303	0.400	"	"	"	"	"	"
Cadmium	0.396	0.200	"	"	"	"	"	"
Copper	5.01	0.400	"	"	"	"	"	"
Lead	9.92	0.200	"	"	"	"	"	"
Nickel	4.82	0.400	"	"	"	"	"	"
Silver	0.0433	0.0200	"	"	"	"	"	"
Zinc	19.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0296	09/12/23	09/12/23	EPA 7196A	

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

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	225	0.0784	mg/L dry	1	BGI0271	09/11/23	09/13/23	EPA 6020B	
Magnesium	63.9	0.0784	"	"	"	"	"	"	
Sodium	427	0.0784	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.47	0.00100	units	1	BGI0382	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/11/23 09:00**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2B04@12'
2309150-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	63.8	%	1	BGI0275	09/12/23	09/12/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.20	0.0100	mmhos/cm	1	BGI0291	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/11/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.64		pH Units	1	BGI0292	09/12/23	09/12/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2B05@12'
2309150-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0273	09/11/23	09/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0411	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0272	"	09/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.4	107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2B05@12'
2309150-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0281	09/12/23	09/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0171	51.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0146	43.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.174	0.0100	mg/L	1	BGI0276	09/12/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/11/23 09:05**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2B05@12'
2309150-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.63	0.200	mg/kg dry	1	BGI0285	09/12/23	09/13/23	EPA 6020B
Barium	272	0.400	"	"	"	"	"	"
Cadmium	0.440	0.200	"	"	"	"	"	"
Copper	5.59	0.400	"	"	"	"	"	"
Lead	10.8	0.200	"	"	"	"	"	"
Nickel	5.17	0.400	"	"	"	"	"	"
Silver	0.0500	0.0200	"	"	"	"	"	"
Zinc	21.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0296	09/12/23	09/12/23	EPA 7196A	

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

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	163	0.0710	mg/L dry	1	BGI0271	09/11/23	09/13/23	EPA 6020B	
Magnesium	40.2	0.0710	"	"	"	"	"	"	
Sodium	332	0.0710	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.04	0.00100	units	1	BGI0382	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/11/23 09:05**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2B05@12'
2309150-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	70.4	%	1	BGI0275	09/12/23	09/12/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.80	0.0100	mmhos/cm	1	BGI0291	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/11/23 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.77		pH Units	1	BGI0292	09/12/23	09/12/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S03@10'
2309150-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0273	09/11/23	09/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0412	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0272	"	09/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.5	108 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S03@10'
2309150-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0281	09/12/23	09/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0209	62.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0171	51.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.230	0.0100	mg/L	1	BGI0276	09/12/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/11/23 09:10**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S03@10'
2309150-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.81	0.200	mg/kg dry	1	BGI0285	09/12/23	09/13/23	EPA 6020B	
Barium	207	0.400	"	"	"	"	"	"	
Cadmium	0.507	0.200	"	"	"	"	"	"	
Copper	8.04	0.400	"	"	"	"	"	"	
Lead	13.5	0.200	"	"	"	"	"	"	
Nickel	6.32	0.400	"	"	"	"	"	"	
Silver	0.0545	0.0200	"	"	"	"	"	"	
Zinc	28.3	0.400	"	"	"	"	"	"	
Selenium	0.408	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0296	09/12/23	09/12/23	EPA 7196A	

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

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	613	0.0725	mg/L dry	1	BGI0271	09/11/23	09/13/23	EPA 6020B	
Magnesium	97.7	0.0725	"	"	"	"	"	"	
Sodium	417	0.0725	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.13	0.00100	units	1	BGI0382	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/11/23 09:10**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S03@10'
2309150-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	69.0	%	1	BGI0275	09/12/23	09/12/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.41	0.0100	mmhos/cm	1	BGI0291	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/11/23 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.41		pH Units	1	BGI0292	09/12/23	09/12/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S04@10'
2309150-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0273	09/11/23	09/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0400	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0382	95.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0272	"	09/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.4	99.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S04@10'
2309150-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0281	09/12/23	09/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0150	45.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.174	0.0100	mg/L	1	BGI0276	09/12/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S04@10'
2309150-04 (Soil)

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Total Metals by EPA 6020B

Arsenic	4.43	0.200	mg/kg dry	1	BGI0285	09/12/23	09/13/23	EPA 6020B
Barium	281	0.400	"	"	"	"	"	"
Cadmium	0.533	0.200	"	"	"	"	"	"
Copper	6.65	0.400	"	"	"	"	"	"
Lead	13.4	0.200	"	"	"	"	"	"
Nickel	5.71	0.400	"	"	"	"	"	"
Silver	0.0458	0.0200	"	"	"	"	"	"
Zinc	23.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0296	09/12/23	09/12/23	EPA 7196A	

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

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	155	0.0735	mg/L dry	1	BGI0271	09/11/23	09/13/23	EPA 6020B	
Magnesium	30.4	0.0735	"	"	"	"	"	"	
Sodium	357	0.0735	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.86	0.00100	units	1	BGI0382	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/11/23 11:45**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S04@10'
2309150-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	68.1	%	1	BGI0275	09/12/23	09/12/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.64	0.0100	mmhos/cm	1	BGI0291	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/11/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.54		pH Units	1	BGI0292	09/12/23	09/12/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/18/23 12:05

2S05@10'
2309150-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0273	09/11/23	09/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0382	95.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0272	"	09/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.2	105 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S05@10'
2309150-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGI0281	09/12/23	09/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0142	42.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.102	0.0100	mg/L	1	BGI0276	09/12/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S05@10'
2309150-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.02	0.200	mg/kg dry	1	BGI0285	09/12/23	09/13/23	EPA 6020B
Barium	297	0.400	"	"	"	"	"	"
Cadmium	0.570	0.200	"	"	"	"	"	"
Copper	7.68	0.400	"	"	"	"	"	"
Lead	14.8	0.200	"	"	"	"	"	"
Nickel	6.66	0.400	"	"	"	"	"	"
Silver	0.0553	0.0200	"	"	"	"	"	"
Zinc	25.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0296	09/12/23	09/12/23	EPA 7196A	

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

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	359	0.0728	mg/L dry	1	BGI0271	09/11/23	09/13/23	EPA 6020B	
Magnesium	64.8	0.0728	"	"	"	"	"	"	
Sodium	380	0.0728	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.85	0.00100	units	1	BGI0382	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/11/23 11:50**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

2S05@10'
2309150-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	68.7	%	1	BGI0275	09/12/23	09/12/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.52	0.0100	mmhos/cm	1	BGI0291	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/11/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BGI0292	09/12/23	09/12/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Stock03
2309150-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/11/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0273	09/11/23	09/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0438	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	96.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	99.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/11/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0272	"	09/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/11/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Stock03
2309150-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/11/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGI0281	09/12/23	09/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/11/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0292	87.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0238	71.4 %	40-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Stock04
2309150-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/11/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0273	09/11/23	09/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0426	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/11/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0272	"	09/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/11/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.3	98.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Stock04
2309150-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/11/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGI0281	09/12/23	09/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/11/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0204	61.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.5 %	40-150		"	"	"	"	

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

GW02
2309150-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/11/23 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0274	09/11/23	09/12/23	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **09/11/23 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.3	99.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	15.0	112 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.7	95.0 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **09/11/23 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	157	12.0	mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	2200	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/11/23 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	2420	10.0	mg/L	1	BGI0369	09/13/23	09/13/23	SM2540C	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGI0273 - EPA 5030 Soil MS

Blank (BGI0273-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0393		"	0.0400		98.2	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	50-150			

LCS (BGI0273-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	0.115	0.0020	mg/kg	0.100		115	70-130			
Toluene	0.0999	0.0050	"	0.100		99.9	70-130			
Ethylbenzene	0.0997	0.0050	"	0.100		99.7	70-130			
m,p-Xylene	0.198	0.010	"	0.200		99.2	70-130			
o-Xylene	0.0966	0.0050	"	0.100		96.6	70-130			
1,2,4-Trimethylbenzene	0.0955	0.0050	"	0.100		95.5	70-130			
1,3,5-Trimethylbenzene	0.0964	0.0050	"	0.100		96.4	70-130			
Naphthalene	0.0817	0.0038	"	0.100		81.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.4	50-150			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.6	50-150			

Matrix Spike (BGI0273-MS1)

Source: 2309150-01

Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	0.0997	0.0020	mg/kg	0.100	ND	99.7	70-130			
Toluene	0.0870	0.0050	"	0.100	ND	87.0	70-130			
Ethylbenzene	0.0880	0.0050	"	0.100	ND	88.0	70-130			
m,p-Xylene	0.177	0.010	"	0.200	ND	88.4	70-130			
o-Xylene	0.0873	0.0050	"	0.100	ND	87.3	70-130			
1,2,4-Trimethylbenzene	0.0861	0.0050	"	0.100	ND	86.1	70-130			
1,3,5-Trimethylbenzene	0.0860	0.0050	"	0.100	ND	86.0	70-130			
Naphthalene	0.0843	0.0038	"	0.100	ND	84.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0400		95.8	50-150			
Surrogate: Toluene-d8	0.0383		"	0.0400		95.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.3	50-150			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGI0273 - EPA 5030 Soil MS

Matrix Spike Dup (BGI0273-MSD1)

Source: 2309150-01

Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	0.0981	0.0020	mg/kg	0.100	ND	98.1	70-130	1.58	30	
Toluene	0.0874	0.0050	"	0.100	ND	87.4	70-130	0.413	30	
Ethylbenzene	0.0858	0.0050	"	0.100	ND	85.8	70-130	2.52	30	
m,p-Xylene	0.173	0.010	"	0.200	ND	86.5	70-130	2.16	30	
o-Xylene	0.0850	0.0050	"	0.100	ND	85.0	70-130	2.65	30	
1,2,4-Trimethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	70-130	0.0697	30	
1,3,5-Trimethylbenzene	0.0870	0.0050	"	0.100	ND	87.0	70-130	1.18	30	
Naphthalene	0.0854	0.0038	"	0.100	ND	85.4	70-130	1.38	30	
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.1	50-150			

Batch BGI0274 - EPA 5030 Water MS

Blank (BGI0274-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		92.7	23-173			
Surrogate: Toluene-d8	14.9		"	13.3		112	20-170			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.2	21-167			

LCS (BGI0274-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	41.6	1.0	ug/l	33.3		125	51-132			
Toluene	42.1	1.0	"	33.3		126	51-138			
Ethylbenzene	36.9	1.0	"	33.3		111	58-146			
Naphthalene	28.4	1.0	"	33.3		85.1	70-130			
1,2,4-Trimethylbenzene	29.8	1.0	"	33.3		89.3	70-130			
1,3,5-Trimethylbenzene	32.0	1.0	"	33.3		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3		110	23-173			
Surrogate: Toluene-d8	14.2		"	13.3		106	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.4	21-167			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

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

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

Batch BGI0274 - EPA 5030 Water MS

Matrix Spike (BGI0274-MS1)				Source: 2309150-08		Prepared: 09/11/23 Analyzed: 09/12/23				
Benzene	42.5	1.0	ug/l	33.3	ND	127	34-141			
Toluene	42.8	1.0	"	33.3	ND	128	27-151			
Ethylbenzene	39.6	1.0	"	33.3	ND	119	29-160			
Naphthalene	34.0	1.0	"	33.3	ND	102	70-130			
1,2,4-Trimethylbenzene	33.0	1.0	"	33.3	ND	99.0	70-130			
1,3,5-Trimethylbenzene	34.4	1.0	"	33.3	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.7	21-167			
Matrix Spike Dup (BGI0274-MSD1)				Source: 2309150-08		Prepared: 09/11/23 Analyzed: 09/12/23				
Benzene	40.7	1.0	ug/l	33.3	ND	122	34-141	4.21	30	
Toluene	31.9	1.0	"	33.3	ND	95.7	27-151	29.1	30	
Ethylbenzene	29.9	1.0	"	33.3	ND	89.7	29-160	27.9	30	
Naphthalene	31.9	1.0	"	33.3	ND	95.6	70-130	6.50	30	
1,2,4-Trimethylbenzene	25.3	1.0	"	33.3	ND	76.0	70-130	26.3	30	
1,3,5-Trimethylbenzene	26.0	1.0	"	33.3	ND	78.1	70-130	27.9	30	
Surrogate: 1,2-Dichloroethane-d4	16.7		"	13.3		125	23-173			
Surrogate: Toluene-d8	14.2		"	13.3		107	20-170			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		105	21-167			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGI0272 - EPA 3550A

Blank (BGI0272-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.4		"	12.5		107	30-150			

LCS (BGI0272-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

C10-C28 (DRO)	496	50	mg/kg	500		99.2	70-130			
Surrogate: o-Terphenyl	12.4		"	12.5		99.2	30-150			

Matrix Spike (BGI0272-MS1)

Source: 2309150-01

Prepared: 09/11/23 Analyzed: 09/12/23

C10-C28 (DRO)	468	50	mg/kg	500	5.28	92.5	70-130			
Surrogate: o-Terphenyl	12.3		"	12.5		98.8	30-150			

Matrix Spike Dup (BGI0272-MSD1)

Source: 2309150-01

Prepared: 09/11/23 Analyzed: 09/12/23

C10-C28 (DRO)	453	50	mg/kg	500	5.28	89.6	70-130	3.19	20	
Surrogate: o-Terphenyl	12.3		"	12.5		98.5	30-150			

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0281 - EPA 5030 Soil MS

Blank (BGI0281-BLK1)

Prepared & Analyzed: 09/12/23

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0277		"	0.0333		83.0		40-150			
Surrogate: Fluoranthene-d10	0.0341		"	0.0333		102		40-150			

LCS (BGI0281-BS1)

Prepared & Analyzed: 09/12/23

Acenaphthene	0.0257	0.00500	mg/kg	0.0333		77.0		31-137			
Anthracene	0.0311	0.00500	"	0.0333		93.2		30-120			
Benzo (a) anthracene	0.0310	0.00500	"	0.0333		93.1		30-120			
Benzo (a) pyrene	0.0289	0.00500	"	0.0333		86.8		30-120			
Benzo (b) fluoranthene	0.0307	0.00500	"	0.0333		92.1		30-120			
Benzo (k) fluoranthene	0.0320	0.00500	"	0.0333		95.9		30-120			
Chrysene	0.0325	0.00500	"	0.0333		97.5		30-120			
Dibenz (a,h) anthracene	0.0224	0.00500	"	0.0333		67.2		30-120			
Fluoranthene	0.0318	0.00500	"	0.0333		95.5		30-120			
Fluorene	0.0283	0.00500	"	0.0333		84.8		30-120			
Indeno (1,2,3-cd) pyrene	0.0297	0.00500	"	0.0333		89.2		30-120			
Pyrene	0.0348	0.00500	"	0.0333		104		35-142			
1-Methylnaphthalene	0.0345	0.00500	"	0.0333		103		35-142			
2-Methylnaphthalene	0.0350	0.00500	"	0.0333		105		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0290		"	0.0333		87.0		40-150			
Surrogate: Fluoranthene-d10	0.0314		"	0.0333		94.3		40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0281 - EPA 5030 Soil MS

Matrix Spike (BGI0281-MS1)

Source: 2308687-01

Prepared & Analyzed: 09/12/23

Acenaphthene	0.0136	0.00500	mg/kg	0.0333	ND	40.8	31-137		
Anthracene	0.0197	0.00500	"	0.0333	ND	59.0	30-120		
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	ND	59.8	30-120		
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120		
Benzo (b) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120		
Benzo (k) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.4	30-120		
Chrysene	0.0198	0.00500	"	0.0333	ND	59.5	30-120		
Dibenz (a,h) anthracene	0.0130	0.00500	"	0.0333	ND	38.9	30-120		
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120		
Fluorene	0.0168	0.00500	"	0.0333	ND	50.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0153	0.00500	"	0.0333	ND	45.9	30-120		
Pyrene	0.0214	0.00500	"	0.0333	ND	64.1	35-142		
1-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.4	15-130		
2-Methylnaphthalene	0.0232	0.00500	"	0.0333	ND	69.7	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0215		"	0.0333		64.5	40-150		
Surrogate: Fluoranthene-d10	0.0202		"	0.0333		60.7	40-150		

Matrix Spike Dup (BGI0281-MSD1)

Source: 2308687-01

Prepared & Analyzed: 09/12/23

Acenaphthene	0.0161	0.00500	mg/kg	0.0333	ND	48.4	31-137	17.2	30
Anthracene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	6.81	30
Benzo (a) anthracene	0.0212	0.00500	"	0.0333	ND	63.5	30-120	5.93	30
Benzo (a) pyrene	0.0172	0.00500	"	0.0333	ND	51.5	30-120	2.42	30
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.9	30-120	2.09	30
Benzo (k) fluoranthene	0.0185	0.00500	"	0.0333	ND	55.5	30-120	1.61	30
Chrysene	0.0207	0.00500	"	0.0333	ND	62.2	30-120	4.46	30
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	3.72	30
Fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	30-120	5.68	30
Fluorene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	12.8	30
Indeno (1,2,3-cd) pyrene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	1.05	30
Pyrene	0.0225	0.00500	"	0.0333	ND	67.6	35-142	5.29	30
1-Methylnaphthalene	0.0173	0.00500	"	0.0333	ND	51.9	15-130	21.4	50
2-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.9	15-130	11.9	50
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.7	40-150		
Surrogate: Fluoranthene-d10	0.0191		"	0.0333		57.4	40-150		

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

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

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

Batch BGI0276 - EPA 3050B

Blank (BGI0276-BLK1)

Prepared: 09/12/23 Analyzed: 09/13/23

Boron ND 0.0100 mg/L

LCS (BGI0276-BS1)

Prepared: 09/12/23 Analyzed: 09/13/23

Boron 5.53 0.0100 mg/L 5.00 111 80-120

Duplicate (BGI0276-DUP1)

Source: 2309147-01

Prepared: 09/12/23 Analyzed: 09/13/23

Boron 0.169 0.0100 mg/L 0.199 16.3 20

Matrix Spike (BGI0276-MS1)

Source: 2309147-01

Prepared: 09/12/23 Analyzed: 09/13/23

Boron 5.70 0.0100 mg/L 5.00 0.199 110 75-125

Matrix Spike Dup (BGI0276-MSD1)

Source: 2309147-01

Prepared: 09/12/23 Analyzed: 09/13/23

Boron 6.07 0.0100 mg/L 5.00 0.199 117 75-125 6.33 25

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0285 - EPA 3050B

Blank (BGI0285-BLK1)

Prepared: 09/12/23 Analyzed: 09/13/23

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

LCS (BGI0285-BS1)

Prepared: 09/12/23 Analyzed: 09/13/23

Arsenic	41.4	0.200	mg/kg wet	40.0	103	80-120
Barium	43.9	0.400	"	40.0	110	80-120
Cadmium	2.18	0.200	"	2.00	109	80-120
Copper	42.7	0.400	"	40.0	107	80-120
Lead	21.7	0.200	"	20.0	109	80-120
Nickel	42.9	0.400	"	40.0	107	80-120
Silver	2.10	0.0200	"	2.00	105	80-120
Zinc	42.2	0.400	"	40.0	106	80-120

Duplicate (BGI0285-DUP1)

Source: 2309147-01

Prepared: 09/12/23 Analyzed: 09/13/23

Arsenic	2.11	0.200	mg/kg dry	1.74	18.8	20	
Barium	98.1	0.400	"	83.5	16.1	20	
Cadmium	0.105	0.200	"	0.0812	25.6	20	QR-01
Copper	3.53	0.400	"	3.06	14.4	20	
Lead	5.22	0.200	"	3.48	39.9	20	QR-03
Nickel	3.25	0.400	"	3.05	6.21	20	
Silver	0.0134	0.0200	"	0.0130	3.17	20	
Zinc	11.8	0.400	"	11.3	4.46	20	
Selenium	ND	0.260	"	ND		200	

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0285 - EPA 3050B

Matrix Spike (BGI0285-MS1)		Source: 2309147-01			Prepared: 09/12/23 Analyzed: 09/13/23					
Arsenic	48.9	0.200	mg/kg dry	41.8	1.74	113	75-125			
Barium	188	0.400	"	41.8	83.5	249	75-125			QM-05
Cadmium	2.70	0.200	"	2.09	0.0812	125	75-125			
Copper	36.9	0.400	"	41.8	3.06	81.0	75-125			
Lead	30.0	0.200	"	20.9	3.48	127	75-125			QM-05
Nickel	37.3	0.400	"	41.8	3.05	81.8	75-125			
Silver	2.41	0.0200	"	2.09	0.0130	114	75-125			
Zinc	47.8	0.400	"	41.8	11.3	87.2	75-125			

Matrix Spike Dup (BGI0285-MSD1)		Source: 2309147-01			Prepared: 09/12/23 Analyzed: 09/13/23					
Arsenic	44.6	0.200	mg/kg dry	41.8	1.74	102	75-125	9.13	25	
Barium	157	0.400	"	41.8	83.5	177	75-125	17.6	25	QM-05
Cadmium	2.46	0.200	"	2.09	0.0812	114	75-125	9.35	25	
Copper	36.0	0.400	"	41.8	3.06	78.6	75-125	2.68	25	
Lead	26.7	0.200	"	20.9	3.48	111	75-125	11.6	25	
Nickel	36.2	0.400	"	41.8	3.05	79.2	75-125	3.05	25	
Silver	2.19	0.0200	"	2.09	0.0130	104	75-125	9.65	25	
Zinc	44.9	0.400	"	41.8	11.3	80.3	75-125	6.29	25	

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 - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/18/23 12:05

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGI0296 - 3060A Mod

Blank (BGI0296-BLK1)

Prepared & Analyzed: 09/12/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0296-BS1)

Prepared & Analyzed: 09/12/23

Chromium, Hexavalent 26.4 0.30 mg/kg wet 25.0 106 80-120

Duplicate (BGI0296-DUP1)

Source: 2309147-01

Prepared & Analyzed: 09/12/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0296-MS1)

Source: 2309147-01

Prepared & Analyzed: 09/12/23

Chromium, Hexavalent 26.5 0.30 mg/kg dry 26.1 ND 101 75-125

Matrix Spike Dup (BGI0296-MSD1)

Source: 2309147-01

Prepared & Analyzed: 09/12/23

Chromium, Hexavalent 26.2 0.30 mg/kg dry 26.1 ND 100 75-125 0.794 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

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

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

Batch BGI0271 - General Preparation

Blank (BGI0271-BLK1)

Prepared: 09/11/23 Analyzed: 09/13/23

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

LCS (BGI0271-BS1)

Prepared: 09/11/23 Analyzed: 09/13/23

Calcium	4.95	0.0500	mg/L wet	5.00	99.0	70-130
Magnesium	5.22	0.0500	"	5.00	104	70-130
Sodium	5.29	0.0500	"	5.00	106	70-130

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

Batch BGI0353 - General Preparation

Blank (BGI0353-BLK1)

Prepared & Analyzed: 09/13/23

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BGI0353-BS1)

Prepared & Analyzed: 09/13/23

Chloride	3.22	0.0600	mg/L	3.00	107	90-110
Sulfate	14.9	0.300	"	15.0	99.6	90-110

Duplicate (BGI0353-DUP1)

Source: 2309021-01

Prepared & Analyzed: 09/13/23

Chloride	191	12.0	mg/L	196	2.58	20
Sulfate	1300	60.0	"	1340	3.26	20

Matrix Spike (BGI0353-MS1)

Source: 2309021-01

Prepared: 09/13/23 Analyzed: 09/14/23

Chloride	812	12.0	mg/L	600	196	103	80-120
Sulfate	4250	60.0	"	3000	1340	97.1	80-120

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	Project: Noble - WPF III	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	09/18/23 12:05

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

Summit Scientific

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

Batch BGI0275 - General Preparation

Duplicate (BGI0275-DUP1)	Source: 2309147-01			Prepared & Analyzed: 09/12/23						
% Solids	95.9		%		95.6			0.242	20	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BGI0369 - General Preparation

Blank (BGI0369-BLK1)

Prepared & Analyzed: 09/13/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGI0369-DUP1)

Source: 2309150-08

Prepared & Analyzed: 09/13/23

Total Dissolved Solids 2440 10.0 mg/L 2420 0.782 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

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

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

Batch BGI0291 - General Preparation

Blank (BGI0291-BLK1)

Prepared & Analyzed: 09/12/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0291-BS1)

Prepared & Analyzed: 09/12/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BGI0291-DUP1)

Source: 2309147-01

Prepared & Analyzed: 09/12/23

Specific Conductance (EC) 1.58 0.0100 mmhos/cm 1.58 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

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

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

Batch BGI0292 - General Preparation

LCS (BGI0292-BS1)

Prepared & Analyzed: 09/12/23

pH	9.19	pH Units	9.18	100	95-105
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Duplicate (BGI0292-DUP1)

Source: 2309147-01

Prepared & Analyzed: 09/12/23

pH	7.94	pH Units	7.94	0.00	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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 12:05

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

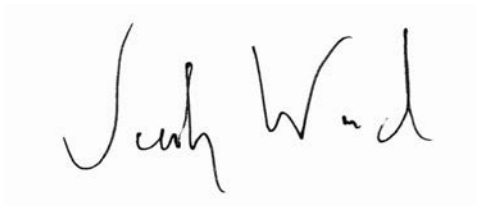
303.277.9310

September 18, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - WPF III
Work Order #2309184

Enclosed are the results of analyses for samples received by Summit Scientific on 09/12/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2N03@10'	2309184-01	Soil	09/12/23 09:00	09/12/23 16:30
2N04@10'	2309184-02	Soil	09/12/23 09:15	09/12/23 16:30
2N05@10'	2309184-03	Soil	09/12/23 09:20	09/12/23 16:30
2B06@12'	2309184-04	Soil	09/12/23 11:10	09/12/23 16:30
2S06@10'	2309184-05	Soil	09/12/23 11:15	09/12/23 16:30
2E01@10'	2309184-06	Soil	09/12/23 11:20	09/12/23 16:30
2E02@10'	2309184-07	Soil	09/12/23 11:30	09/12/23 16:30

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page	of
2309184		1

Client: Fremont Environmental		Send Data To:		Send Invoice To:	
Address: 8305 6th Street		Project Manager: Paul Henehan		Company: Noble	
City/State/Zip: Wellington, CO, 80549		E-Mail: Fremont Distribution List		Project Name/Location:	
Phone: 603-477-6907		Project Name: WPF III		AFE#: UWRWE -A2740 -ASN	
Sampler Name: Aaron Otilar		Project Number:		PO/Billing Codes:	
				Contact: Dan Peterson	

					Preservative				Matrix			Analysis Requested							Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 915	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Cl, SO4	Metals (915-1)	
1	2N03 @ 10'	9/12/23	0900	2			2			X			X	X	X	X		X	
2	2N04 @ 10'		0915																
3	2N05 @ 10'		0920																
4	2B06 @ 12'		1110																
5	2S06 @ 10'		1115																
6	2E01 @ 10'		1120																
7	2E02 @ 10'		1130																
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
<i>Aaron Otilar</i>	9/12/23 1500	<i>Summit North Dropbox</i>	9/12/23 1500	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
<i>32</i>	9/12/23 1630	<i>[Signature]</i>	9/12/23 1630	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 17.6		Corrected Temperature 8		IR gun #:	HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2309184Client: FremontClient Project ID: WPF IIIShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: _____

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

Matrix (Check all that apply)

Air

☐

Soil

☒

Water

☐

Other

☐

Temp (°C)

17.6

Thermometer #

1

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

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

09-12-23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N03@10'
2309184-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.015	0.0020		mg/kg	1	BGI0319	09/12/23	09/13/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	0.26	0.0050		"	"	"	"	"	"	
Xylenes (total)	2.5	0.10		"	10	"	"	"	"	
1,2,4-Trimethylbenzene	2.1	0.050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.89	0.050		"	"	"	"	"	"	
Naphthalene	0.12	0.0038		"	1	"	"	"	"	
Gasoline Range Hydrocarbons	84	5.0		"	10	"	"	"	"	

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0430	108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0556	139 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0537	134 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGI0320	09/12/23	09/12/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.1	96.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N03@10'
2309184-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0332	09/13/23	09/14/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.153	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.354	0.00500	"	"	"	"	"	"	E

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0207	62.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.292	0.0100	mg/L	1	BGI0330	09/13/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/12/23 09:00**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N03@10'
2309184-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.23	0.200	mg/kg dry	1	BGI0323	09/13/23	09/14/23	EPA 6020B
Barium	303	0.400	"	"	"	"	"	"
Cadmium	0.314	0.200	"	"	"	"	"	"
Copper	1.89	0.400	"	"	"	"	"	"
Lead	10.2	0.200	"	"	"	"	"	"
Nickel	1.83	0.400	"	"	"	"	"	"
Silver	0.0404	0.0200	"	"	"	"	"	"
Zinc	7.17	0.400	"	"	"	"	"	"
Selenium	0.652	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0362	09/13/23	09/13/23	EPA 7196A	

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

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.6	0.0721	mg/L dry	1	BGI0318	09/12/23	09/15/23	EPA 6020B	
Magnesium	7.98	0.0721	"	"	"	"	"	"	
Sodium	207	0.0721	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.20	0.00100	units	1	BGI0479	09/16/23	09/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/12/23 09:00**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N03@10'
2309184-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	69.4	%	1	BGI0329	09/13/23	09/13/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.813	0.0100	mmhos/cm	1	BGI0324	09/13/23	09/13/23	EPA 120.1	

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

Date Sampled: **09/12/23 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BGI0326	09/13/23	09/13/23	EPA 9045D	

Summit Scientific

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N04@10'
2309184-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.073	0.0020	mg/kg	1	BGI0319	09/12/23	09/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	2.1	0.050	"	10	"	"	"	"	
Xylenes (total)	17	0.10	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	8.3	0.050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	3.7	0.050	"	"	"	"	"	"	
Naphthalene	0.22	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	910	5.0	"	10	"	"	"	"	E

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0516	129 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.136	341 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.116	290 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	120	50	mg/kg	1	BGI0320	09/12/23	09/12/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/12/23 09:15**

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

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Fremont Environmental
PO Box 1289
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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N04@10'
2309184-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00532	0.00500	mg/kg	1	BGI0332	09/13/23	09/14/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.215	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.494	0.00500	"	"	"	"	"	"	E

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0210	63.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	57.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.292	0.0100	mg/L	1	BGI0330	09/13/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/12/23 09:15**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N04@10'
2309184-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.956	0.200	mg/kg dry	1	BGI0323	09/13/23	09/14/23	EPA 6020B
Barium	242	0.400	"	"	"	"	"	"
Cadmium	0.287	0.200	"	"	"	"	"	"
Copper	1.88	0.400	"	"	"	"	"	"
Lead	8.59	0.200	"	"	"	"	"	"
Nickel	1.68	0.400	"	"	"	"	"	"
Silver	0.0331	0.0200	"	"	"	"	"	"
Zinc	6.20	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0362	09/13/23	09/13/23	EPA 7196A	

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

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.6	0.0668	mg/L dry	1	BGI0318	09/12/23	09/15/23	EPA 6020B	
Magnesium	7.40	0.0668	"	"	"	"	"	"	
Sodium	173	0.0668	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.38	0.00100	units	1	BGI0479	09/16/23	09/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/12/23 09:15**

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

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N04@10'
2309184-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	74.9	%	1	BGI0329	09/13/23	09/13/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.749	0.0100	mmhos/cm	1	BGI0324	09/13/23	09/13/23	EPA 120.1	

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

Date Sampled: **09/12/23 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BGI0326	09/13/23	09/13/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N05@10'
2309184-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0319	09/12/23	09/12/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0066	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	11	0.50	"	"	"	"	"	"	

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0475	119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0898	224 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	61	50	mg/kg	1	BGI0320	09/12/23	09/12/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.2	97.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N05@10'
2309184-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0332	09/13/23	09/14/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0166	49.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.473	0.0100	mg/L	1	BGI0330	09/13/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/12/23 09:20**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N05@10'
2309184-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.28	0.200	mg/kg dry	1	BGI0323	09/13/23	09/14/23	EPA 6020B
Barium	198	0.400	"	"	"	"	"	"
Cadmium	0.433	0.200	"	"	"	"	"	"
Copper	2.73	0.400	"	"	"	"	"	"
Lead	12.9	0.200	"	"	"	"	"	"
Nickel	2.15	0.400	"	"	"	"	"	"
Silver	0.0568	0.0200	"	"	"	"	"	"
Zinc	9.03	0.400	"	"	"	"	"	"
Selenium	0.268	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0362	09/13/23	09/13/23	EPA 7196A	

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

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	112	0.0732	mg/L dry	1	BGI0318	09/12/23	09/15/23	EPA 6020B	
Magnesium	20.7	0.0732	"	"	"	"	"	"	
Sodium	325	0.0732	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.40	0.00100	units	1	BGI0479	09/16/23	09/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/12/23 09:20**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2N05@10'
2309184-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	68.3	%	1	BGI0329	09/13/23	09/13/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.43	0.0100	mmhos/cm	1	BGI0324	09/13/23	09/13/23	EPA 120.1	

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

Date Sampled: **09/12/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BGI0326	09/13/23	09/13/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2B06@12'
2309184-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0319	09/12/23	09/12/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0466	116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0423	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0470	117 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0320	09/12/23	09/12/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:10**

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

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2B06@12'
2309184-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0332	09/13/23	09/14/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	61.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.227	0.0100	mg/L	1	BGI0330	09/13/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/12/23 11:10**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2B06@12'
2309184-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.29	0.200	mg/kg dry	1	BGI0323	09/13/23	09/14/23	EPA 6020B
Barium	110	0.400	"	"	"	"	"	"
Cadmium	0.259	0.200	"	"	"	"	"	"
Copper	2.26	0.400	"	"	"	"	"	"
Lead	6.85	0.200	"	"	"	"	"	"
Nickel	2.75	0.400	"	"	"	"	"	"
Silver	0.0371	0.0200	"	"	"	"	"	"
Zinc	8.21	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0362	09/13/23	09/13/23	EPA 7196A	

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

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	654	0.0626	mg/L dry	1	BGI0318	09/12/23	09/15/23	EPA 6020B	
Magnesium	136	0.0626	"	"	"	"	"	"	
Sodium	259	0.0626	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.41	0.00100	units	1	BGI0479	09/16/23	09/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/12/23 11:10**

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 - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2B06@12'
2309184-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.9	%	1	BGI0329	09/13/23	09/13/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.45	0.0100	mmhos/cm	1	BGI0324	09/13/23	09/13/23	EPA 120.1	

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

Date Sampled: **09/12/23 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.51		pH Units	1	BGI0326	09/13/23	09/13/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/18/23 13:55

2S06@10'
2309184-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0319	09/12/23	09/12/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0466	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0320	09/12/23	09/13/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.3	106 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2S06@10'
2309184-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGI0332	09/13/23	09/14/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0157	47.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0150	45.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.141	0.0100	mg/L	1	BGI0330	09/13/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2S06@10'
2309184-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.785	0.200	mg/kg dry	1	BGI0323	09/13/23	09/14/23	EPA 6020B
Barium	286	0.400	"	"	"	"	"	"
Cadmium	0.318	0.200	"	"	"	"	"	"
Copper	1.88	0.400	"	"	"	"	"	"
Lead	9.55	0.200	"	"	"	"	"	"
Nickel	1.76	0.400	"	"	"	"	"	"
Silver	0.0389	0.0200	"	"	"	"	"	"
Zinc	6.63	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0362	09/13/23	09/13/23	EPA 7196A	

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

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	105	0.0726	mg/L dry	1	BGI0318	09/12/23	09/15/23	EPA 6020B	
Magnesium	20.6	0.0726	"	"	"	"	"	"	
Sodium	278	0.0726	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.49	0.00100	units	1	BGI0479	09/16/23	09/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/12/23 11:15**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2S06@10'
2309184-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	68.9	%	1	BGI0329	09/13/23	09/13/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.33	0.0100	mmhos/cm	1	BGI0324	09/13/23	09/13/23	EPA 120.1	

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

Date Sampled: **09/12/23 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BGI0326	09/13/23	09/13/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2E01@10'
2309184-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0319	09/12/23	09/12/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0440	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0423	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0320	09/12/23	09/13/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.1	105 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2E01@10'
2309184-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0332	09/13/23	09/14/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0171	51.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	52.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.205	0.0100	mg/L	1	BGI0330	09/13/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/12/23 11:20**

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 - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2E01@10'
2309184-06 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.840	0.200	mg/kg dry	1	BGI0323	09/13/23	09/14/23	EPA 6020B
Barium	175	0.400	"	"	"	"	"	"
Cadmium	0.275	0.200	"	"	"	"	"	"
Copper	1.96	0.400	"	"	"	"	"	"
Lead	8.80	0.200	"	"	"	"	"	"
Nickel	1.91	0.400	"	"	"	"	"	"
Silver	0.0374	0.0200	"	"	"	"	"	"
Zinc	7.55	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0362	09/13/23	09/13/23	EPA 7196A	

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

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	112	0.0730	mg/L dry	1	BGI0318	09/12/23	09/15/23	EPA 6020B	
Magnesium	23.0	0.0730	"	"	"	"	"	"	
Sodium	304	0.0730	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.84	0.00100	units	1	BGI0479	09/16/23	09/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2E01@10'
2309184-06 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	68.5	%	1	BGI0329	09/13/23	09/13/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.41	0.0100	mmhos/cm	1	BGI0324	09/13/23	09/13/23	EPA 120.1	

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

Date Sampled: **09/12/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.49		pH Units	1	BGI0326	09/13/23	09/13/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2E02@10'
2309184-07 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGI0319	09/12/23	09/12/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0435	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0320	09/12/23	09/13/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.5	108 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

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2E02@10'
2309184-07 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGI0332	09/13/23	09/14/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.161	0.0100	mg/L	1	BGI0330	09/13/23	09/13/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2E02@10'
2309184-07 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.873	0.200	mg/kg dry	1	BGI0323	09/13/23	09/14/23	EPA 6020B
Barium	179	0.400	"	"	"	"	"	"
Cadmium	0.208	0.200	"	"	"	"	"	"
Copper	1.30	0.400	"	"	"	"	"	"
Lead	7.13	0.200	"	"	"	"	"	"
Nickel	1.48	0.400	"	"	"	"	"	"
Silver	0.0277	0.0200	"	"	"	"	"	"
Zinc	5.60	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0362	09/13/23	09/13/23	EPA 7196A	

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

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	231	0.0680	mg/L dry	1	BGI0318	09/12/23	09/15/23	EPA 6020B	
Magnesium	36.0	0.0680	"	"	"	"	"	"	
Sodium	497	0.0680	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.03	0.00100	units	1	BGI0479	09/16/23	09/16/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

2E02@10'
2309184-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	73.6	%	1	BGI0329	09/13/23	09/13/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.50	0.0100	mmhos/cm	1	BGI0324	09/13/23	09/13/23	EPA 120.1	

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

Date Sampled: **09/12/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.46		pH Units	1	BGI0326	09/13/23	09/13/23	EPA 9045D	

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGI0319 - EPA 5030 Soil MS

Blank (BGI0319-BLK1)

Prepared: 09/12/23 Analyzed: 09/13/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0395		"	0.0400		98.8	50-150			
Surrogate: Toluene-d8	0.0415		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

LCS (BGI0319-BS1)

Prepared: 09/12/23 Analyzed: 09/13/23

Benzene	0.116	0.0020	mg/kg	0.100		116	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.103	0.0050	"	0.100		103	70-130			
m,p-Xylene	0.197	0.010	"	0.200		98.5	70-130			
o-Xylene	0.0935	0.0050	"	0.100		93.5	70-130			
1,2,4-Trimethylbenzene	0.0930	0.0050	"	0.100		93.0	70-130			
1,3,5-Trimethylbenzene	0.0954	0.0050	"	0.100		95.4	70-130			
Naphthalene	0.0764	0.0038	"	0.100		76.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0418		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

Matrix Spike (BGI0319-MS1)

Source: 2309183-01

Prepared: 09/12/23 Analyzed: 09/13/23

Benzene	0.0990	0.0020	mg/kg	0.100	ND	99.0	70-130			
Toluene	0.0866	0.0050	"	0.100	ND	86.6	70-130			
Ethylbenzene	0.0846	0.0050	"	0.100	ND	84.6	70-130			
m,p-Xylene	0.159	0.010	"	0.200	ND	79.3	70-130			
o-Xylene	0.0771	0.0050	"	0.100	ND	77.1	70-130			
1,2,4-Trimethylbenzene	0.0748	0.0050	"	0.100	ND	74.8	70-130			
1,3,5-Trimethylbenzene	0.0771	0.0050	"	0.100	ND	77.1	70-130			
Naphthalene	0.0860	0.0038	"	0.100	ND	86.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0430		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400		106	50-150			

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

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 BGI0319 - EPA 5030 Soil MS

Matrix Spike Dup (BGI0319-MSD1)		Source: 2309183-01			Prepared: 09/12/23 Analyzed: 09/13/23					
Benzene	0.0944	0.0020	mg/kg	0.100	ND	94.4	70-130	4.68	30	
Toluene	0.0837	0.0050	"	0.100	ND	83.7	70-130	3.42	30	
Ethylbenzene	0.0799	0.0050	"	0.100	ND	79.9	70-130	5.69	30	
m,p-Xylene	0.153	0.010	"	0.200	ND	76.3	70-130	3.91	30	
o-Xylene	0.0742	0.0050	"	0.100	ND	74.2	70-130	3.81	30	
1,2,4-Trimethylbenzene	0.0704	0.0050	"	0.100	ND	70.4	70-130	6.07	30	
1,3,5-Trimethylbenzene	0.0718	0.0050	"	0.100	ND	71.8	70-130	7.13	30	
Naphthalene	0.0902	0.0038	"	0.100	ND	90.2	70-130	4.70	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0478		"	0.0400		119	50-150			
Surrogate: Toluene-d8	0.0430		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGI0320 - EPA 3550A

Blank (BGI0320-BLK1)

Prepared: 09/12/23 Analyzed: 09/13/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.2		"	12.5		106	30-150			

LCS (BGI0320-BS1)

Prepared: 09/12/23 Analyzed: 09/13/23

C10-C28 (DRO)	602	50	mg/kg	500		120	70-130			
Surrogate: o-Terphenyl	12.7		"	12.5		102	30-150			

Matrix Spike (BGI0320-MS1)

Source: 2309183-01

Prepared: 09/12/23 Analyzed: 09/13/23

C10-C28 (DRO)	565	50	mg/kg	500	8.28	111	70-130			
Surrogate: o-Terphenyl	12.2		"	12.5		97.4	30-150			

Matrix Spike Dup (BGI0320-MSD1)

Source: 2309183-01

Prepared: 09/12/23 Analyzed: 09/13/23

C10-C28 (DRO)	590	50	mg/kg	500	8.28	116	70-130	4.37	20	
Surrogate: o-Terphenyl	12.6		"	12.5		101	30-150			

Summit Scientific

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Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0332 - EPA 5030 Soil MS

Blank (BGI0332-BLK1)

Prepared & Analyzed: 09/13/23

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0275		"	0.0333		82.6		40-150			
Surrogate: Fluoranthene-d10	0.0284		"	0.0333		85.1		40-150			

LCS (BGI0332-BS1)

Prepared & Analyzed: 09/13/23

Acenaphthene	0.0281	0.00500	mg/kg	0.0333		84.2		31-137			
Anthracene	0.0275	0.00500	"	0.0333		82.5		30-120			
Benzo (a) anthracene	0.0268	0.00500	"	0.0333		80.3		30-120			
Benzo (a) pyrene	0.0257	0.00500	"	0.0333		77.2		30-120			
Benzo (b) fluoranthene	0.0254	0.00500	"	0.0333		76.3		30-120			
Benzo (k) fluoranthene	0.0264	0.00500	"	0.0333		79.3		30-120			
Chrysene	0.0277	0.00500	"	0.0333		83.1		30-120			
Dibenz (a,h) anthracene	0.0343	0.00500	"	0.0333		103		30-120			
Fluoranthene	0.0269	0.00500	"	0.0333		80.6		30-120			
Fluorene	0.0283	0.00500	"	0.0333		84.9		30-120			
Indeno (1,2,3-cd) pyrene	0.0355	0.00500	"	0.0333		107		30-120			
Pyrene	0.0301	0.00500	"	0.0333		90.3		35-142			
1-Methylnaphthalene	0.0266	0.00500	"	0.0333		79.8		35-142			
2-Methylnaphthalene	0.0284	0.00500	"	0.0333		85.2		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0258		"	0.0333		77.3		40-150			
Surrogate: Fluoranthene-d10	0.0274		"	0.0333		82.3		40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0332 - EPA 5030 Soil MS

Matrix Spike (BGI0332-MS1)			Source: 2309123-01		Prepared & Analyzed: 09/13/23						
Acenaphthene	0.0251	0.00500	mg/kg	0.0333	0.0104	44.2	31-137				
Anthracene	0.0193	0.00500	"	0.0333	ND	57.8	30-120				
Benzo (a) anthracene	0.0285	0.00500	"	0.0333	0.0132	45.9	30-120				
Benzo (a) pyrene	0.0226	0.00500	"	0.0333	0.00799	43.8	30-120				
Benzo (b) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.3	30-120				
Benzo (k) fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	30-120				
Chrysene	0.0339	0.00500	"	0.0333	0.0176	48.7	30-120				
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120				
Fluoranthene	0.0439	0.00500	"	0.0333	0.0313	37.8	30-120				
Fluorene	0.0395	0.00500	"	0.0333	0.0276	35.8	30-120				
Indeno (1,2,3-cd) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120				
Pyrene	0.0479	0.00500	"	0.0333	0.0369	32.9	35-142				QM-02
1-Methylnaphthalene	0.322	0.00500	"	0.0333	0.320	6.56	15-130				QM-02
2-Methylnaphthalene	0.320	0.00500	"	0.0333	0.318	4.11	15-130				QM-02
Surrogate: 2-Methylnaphthalene-d10	0.0186		"	0.0333		55.7	40-150				
Surrogate: Fluoranthene-d10	0.0179		"	0.0333		53.7	40-150				

Matrix Spike Dup (BGI0332-MSD1)			Source: 2309123-01		Prepared & Analyzed: 09/13/23						
Acenaphthene	0.0234	0.00500	mg/kg	0.0333	0.0104	39.0	31-137	7.12	30		
Anthracene	0.0176	0.00500	"	0.0333	ND	52.9	30-120	8.81	30		
Benzo (a) anthracene	0.0255	0.00500	"	0.0333	0.0132	36.8	30-120	11.2	30		
Benzo (a) pyrene	0.0206	0.00500	"	0.0333	0.00799	37.9	30-120	9.20	30		
Benzo (b) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.8	30-120	6.30	30		
Benzo (k) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.7	30-120	8.79	30		
Chrysene	0.0312	0.00500	"	0.0333	0.0176	40.8	30-120	8.07	30		
Dibenz (a,h) anthracene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	13.1	30		
Fluoranthene	0.0417	0.00500	"	0.0333	0.0313	31.4	30-120	5.02	30		
Fluorene	0.0345	0.00500	"	0.0333	0.0276	20.7	30-120	13.6	30		QM-02
Indeno (1,2,3-cd) pyrene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	18.4	30		
Pyrene	0.0464	0.00500	"	0.0333	0.0369	28.4	35-142	3.21	30		QM-02
1-Methylnaphthalene	0.273	0.00500	"	0.0333	0.320	NR	15-130	16.4	50		QM-02
2-Methylnaphthalene	0.274	0.00500	"	0.0333	0.318	NR	15-130	15.5	50		QM-02
Surrogate: 2-Methylnaphthalene-d10	0.0174		"	0.0333		52.1	40-150				
Surrogate: Fluoranthene-d10	0.0164		"	0.0333		49.2	40-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

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

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

Batch BGI0330 - EPA 3050B

Blank (BGI0330-BLK1)

Prepared & Analyzed: 09/13/23

Boron ND 0.0100 mg/L

LCS (BGI0330-BS1)

Prepared & Analyzed: 09/13/23

Boron 5.46 0.0100 mg/L 5.00 109 80-120

Duplicate (BGI0330-DUP1)

Source: 2309173-01

Prepared & Analyzed: 09/13/23

Boron 0.123 0.0100 mg/L 0.178 36.4 20 QR-04

Matrix Spike (BGI0330-MS1)

Source: 2309173-01

Prepared & Analyzed: 09/13/23

Boron 5.89 0.0100 mg/L 5.00 0.178 114 75-125

Matrix Spike Dup (BGI0330-MSD1)

Source: 2309173-01

Prepared & Analyzed: 09/13/23

Boron 5.38 0.0100 mg/L 5.00 0.178 104 75-125 9.01 25

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PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0323 - EPA 3050B

Blank (BGI0323-BLK1)

Prepared: 09/13/23 Analyzed: 09/14/23

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

LCS (BGI0323-BS1)

Prepared: 09/13/23 Analyzed: 09/14/23

Arsenic	46.0	0.200	mg/kg wet	40.0	115	80-120
Barium	45.6	0.400	"	40.0	114	80-120
Cadmium	2.39	0.200	"	2.00	120	80-120
Copper	44.1	0.400	"	40.0	110	80-120
Lead	23.9	0.200	"	20.0	120	80-120
Nickel	47.8	0.400	"	40.0	119	80-120
Silver	2.28	0.0200	"	2.00	114	80-120
Zinc	45.2	0.400	"	40.0	113	80-120

Duplicate (BGI0323-DUP1)

Source: 2309176-01

Prepared: 09/13/23 Analyzed: 09/14/23

Arsenic	1.21	0.200	mg/kg dry	1.34	9.96	20
Barium	64.8	0.400	"	96.8	39.7	20
Cadmium	0.143	0.200	"	0.136	5.14	20
Copper	1.60	0.400	"	1.74	8.22	20
Lead	6.53	0.200	"	6.97	6.50	20
Nickel	2.44	0.400	"	2.62	7.14	20
Silver	0.0117	0.0200	"	0.0117	0.00	20
Zinc	7.78	0.400	"	8.26	5.94	20
Selenium	ND	0.260	"	ND		200

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0323 - EPA 3050B

Matrix Spike (BGI0323-MS1)

Source: 2309176-01

Prepared: 09/13/23 Analyzed: 09/14/23

Arsenic	14.4	0.200	mg/kg dry	44.8	1.34	29.2	75-125			QM-01
Barium	120	0.400	"	44.8	96.8	51.8	75-125			QM-01
Cadmium	2.68	0.200	"	2.24	0.136	114	75-125			
Copper	15.6	0.400	"	44.8	1.74	30.9	75-125			QM-01
Lead	29.2	0.200	"	22.4	6.97	99.2	75-125			
Nickel	16.5	0.400	"	44.8	2.62	30.9	75-125			QM-01
Silver	2.39	0.0200	"	2.24	0.0117	106	75-125			
Zinc	21.1	0.400	"	44.8	8.26	28.8	75-125			QM-01

Matrix Spike Dup (BGI0323-MSD1)

Source: 2309176-01

Prepared: 09/13/23 Analyzed: 09/14/23

Arsenic	13.6	0.200	mg/kg dry	44.8	1.34	27.4	75-125	5.57	25	QM-01
Barium	124	0.400	"	44.8	96.8	59.9	75-125	2.97	25	QM-01
Cadmium	2.33	0.200	"	2.24	0.136	97.8	75-125	14.2	25	
Copper	15.0	0.400	"	44.8	1.74	29.5	75-125	4.13	25	QM-01
Lead	25.8	0.200	"	22.4	6.97	84.2	75-125	12.2	25	
Nickel	15.9	0.400	"	44.8	2.62	29.7	75-125	3.32	25	QM-01
Silver	2.07	0.0200	"	2.24	0.0117	92.0	75-125	14.2	25	
Zinc	20.5	0.400	"	44.8	8.26	27.3	75-125	3.19	25	QM-01

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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/18/23 13:55

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGI0362 - 3060A Mod

Blank (BGI0362-BLK1)

Prepared & Analyzed: 09/13/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0362-BS1)

Prepared & Analyzed: 09/13/23

Chromium, Hexavalent 22.6 0.30 mg/kg wet 25.0 90.4 80-120

Duplicate (BGI0362-DUP1)

Source: 2309163-02

Prepared & Analyzed: 09/13/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0362-MS1)

Source: 2309163-02

Prepared & Analyzed: 09/13/23

Chromium, Hexavalent 24.5 0.30 mg/kg dry 29.1 ND 84.2 75-125

Matrix Spike Dup (BGI0362-MSD1)

Source: 2309163-02

Prepared & Analyzed: 09/13/23

Chromium, Hexavalent 24.4 0.30 mg/kg dry 29.1 ND 84.0 75-125 0.238 20

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PO Box 1289
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Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

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

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

Batch BGI0318 - General Preparation

Blank (BGI0318-BLK1)

Prepared: 09/12/23 Analyzed: 09/15/23

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

LCS (BGI0318-BS1)

Prepared: 09/12/23 Analyzed: 09/15/23

Calcium	5.46	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.31	0.0500	"	5.00	106	70-130
Sodium	5.79	0.0500	"	5.00	116	70-130

Summit Scientific

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PO Box 1289
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Project: Noble - WPF III

Project Number: [none]

Project Manager: Paul Henchan

Reported:
09/18/23 13:55

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

Summit Scientific

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

Batch BGI0329 - General Preparation

Duplicate (BGI0329-DUP1)		Source: 2309178-01			Prepared & Analyzed: 09/13/23						
% Solids	89.5		%		89.4			0.0503		20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

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

Summit Scientific

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

Batch BGI0324 - General Preparation

Blank (BGI0324-BLK1)

Prepared & Analyzed: 09/13/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0324-BS1)

Prepared & Analyzed: 09/13/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.3 95-105

Duplicate (BGI0324-DUP1)

Source: 2309181-01

Prepared & Analyzed: 09/13/23

Specific Conductance (EC) 2.20 0.0100 mmhos/cm 2.20 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

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

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

Batch BGI0326 - General Preparation

LCS (BGI0326-BS1)

Prepared & Analyzed: 09/13/23

pH	9.20	pH Units	9.18	100	95-105
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Duplicate (BGI0326-DUP1)

Source: 2309181-01

Prepared & Analyzed: 09/13/23

pH	7.71	pH Units	7.71	0.00	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - WPF III

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/18/23 13:55

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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