

FREMONT ENVIRONMENTAL INC.

July 16, 2024

Mr. Jason Davidson
Noble Energy Inc.
1099 18th Street Suite 1500
Denver, CO 80202

Subject: **Excavation Report**
 Grigsby AC19-62HN Tank Battery
 NENE Sec. 30, T7N, R63W
 Weld County, Colorado
 Fremont Project No. C024-022
 Facility #427074, Remediation #35368

Dear Mr. Davidson:

Enclosed please find a copy of the above referenced Excavation Report for the Grigsby AC19-62HN Tank Battery release site in Weld County, Colorado. The enclosed report describes excavation and sampling efforts to remediate impacted soil at the site.

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

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Ethan D. Black, PG
Consultant

Enclosure

EXCAVATION REPORT

NOBLE ENERGY INC.

GRIGSBY AC19-62HN TANK BATTERY

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C024-022

FACILITY #427074, REMEDIATION #35368

Prepared by:

Fremont Environmental Inc.

1759 Redwing Lane

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July 16, 2024

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EXCAVATION REPORT

NOBLE ENERGY INC.

GRIGSBY AC19-62HN TANK BATTERY

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C024-022

FACILITY #427074, REMEDIATION #35368

1.0 INTRODUCTION

The purpose of this document is to present information collected during the excavation of impacted soil at the Grigsby AC19-62HN Tank Battery (Grigsby) separator release location in Weld County, Colorado. Excavation of impacted soil was completed on April 11, 2024.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Grigsby site is located approximately 6.33 miles west of Galeton, Colorado in Weld County as shown on Figure 1. The site is located in an agricultural area approximately 0.03 miles west of the intersection of County Road 78 and County Road 63. The location is further described as the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 30, Township 7N, Range 63W.

2.2 Site History

The Grigsby tank battery is currently in production and services multiple oil wells which were completed in June 2012.

Soil impacts were observed at and adjacent to the Grigsby AC19-62HN separator on January 26, 2024. An oil dump line developed a leak below ground inside the Grigsby separator doghouse. As a result, an unknown amount of crude oil was released to the surface and subsurface.

3.0 FIELD ACTIVITIES

Remediation efforts consisted of the excavation of impacted soil at and adjacent to the release area. The surface generally consisted of three inches of roadbase within the excavation which was underlain by fine-to-coarse sand to a depth of two feet below ground surface (bgs). The sand was underlain silty sand to six feet bgs and clay to 10 feet bgs. Groundwater was not encountered within the excavation.

Excavation of the release area began on April 4, 2024 and was completed on April 11, 2024. Twenty-five soil samples were collected at the Grigsby location during the two-day excavation at varying depths and field screened using a photoionization detector (PID). Soil samples collected within the excavation were submitted for analysis. Additionally, 10 background samples were collected in native soil adjacent to the pad and previously unimpacted on-pad locations from similar depths and lithologies as the excavation confirmation samples and submitted for analysis of Table 915-1 metals and soil suitability for reclamation constituents.

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

The laboratory analyses indicate that organic petroleum constituents in soil samples collected from the excavation achieved the ECMC Table 915-1 Protection of Groundwater Standards (PGSSLs). However, multiple samples collected within the excavation exceeded the ECMC Table 915-1 soil suitability for reclamation (SSR) standards for pH and SAR in addition to exceeding the PGSSLs for lead and selenium. Multiple background samples, collected adjacent to the Grigsby location, exceeded the ECMC Table 915-1 soil suitability for reclamation standard for pH and SAR as well as the Residential Soil Screening Levels (RSSLs) for arsenic, and the PGSSLs for barium and selenium. Further, seven samples exceeded the maximum background pH concentration, 12 samples exceeded the maximum background SAR concentration, four samples exceeded 125% of the maximum background concentration for lead, and one sample exceeded 125% of the maximum background concentration for selenium.

Noble proposes to attribute elevated concentrations of metals arsenic and barium to native soil conditions since concentrations of these metals observed in the excavation samples were less than 125% of the maximum concentrations in the background samples collected from native soil. Noble will address elevated pH and SAR concentrations greater than the ECMC soil suitability for reclamation standards observed in exceedance of their respective maximum background concentrations with a reclamation plan.

To address residual elevated concentrations of lead and selenium Noble proposes to collect a crude oil sample from the separator at the Grigsby tank battery to confirm that the concentrations of lead and selenium in the production fluid released are insufficient to account for the elevated concentrations of the aforementioned metals observed in the excavation confirmation samples.

Approximately 1,555 cubic yards of impacted soil were removed via excavation by RamCO Oilfield Services during the excavation. The impacted soil was disposed of at the North Weld Landfill in Ault, Colorado as non-hazardous waste. The excavation was backfilled using clean, imported fill.

4.0 DISCUSSION

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

Approximately 1,555 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. A reclamation plan drafted to address elevated SSR constituents pH and SAR, and additional sampling of the production fluids at the Grigsby tank battery will be conducted to address elevated lead and selenium concentrations observed in the excavation confirmation samples.

5.0 REMARKS

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

Excavation Report

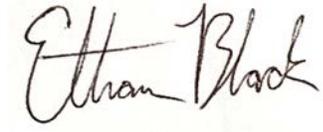
Grigsby AC19-62HN Tank Battery

Weld County, Colorado

Fremont No. C024-022

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



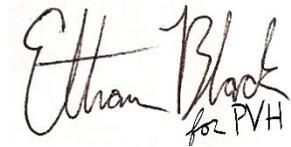
7/16/24

Date _____

Ethan D. Black, P.G.

Geologist

Reviewed by:



7/16/24

Date _____

Paul V. Henehan, P.E.

Senior Consultant

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
GRIGSBY AC19-62HN, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-022

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
Waste Char.	1/29/2024	Grab	210	500	200	710	270	40	46	15000	18000	10000
SS-01 6 Ft	1/31/2024	6	0.012	<0.0050	<0.0050	0.016	0.017	0.011	0.0079	0.54	<50	<50
SS-06 6 Ft	1/31/2024	6	<0.002	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-07 6 Ft	1/31/2024	6	<0.002	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-09 6 Ft	1/31/2024	6	0.016	0.014	<0.0050	0.037	0.018	<0.0050	0.0087	0.52	<50	<50
SS-14 6 Ft	1/31/2024	6	0.0092	0.016	0.015	0.060	0.024	0.012	0.012	0.67	<50	<50
SS-19 4 Ft	2/2/2024	4	<0.002	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	0.89	<50	<50
SS-22 4 Ft	2/2/2024	4	<0.002	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-23 6FT	04/04/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-24 6FT	04/04/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-25 6FT	04/04/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-26 6FT	04/04/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-27 6FT	04/04/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-28 6FT	04/04/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-29 10FT	04/04/2024	10	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-30 6FT	04/04/2024	6	0.036	0.02	0.03	0.07	0.094	0.02	0.04	3.3	<50	<50
SS-32 10FT	04/04/2024	10	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-33 6FT	04/04/2024	6	3.300	0.12	9.50	7.00	17.000	4.70	0.63	1500	6600	1500
SS-34 6FT	04/04/2024	6	<0.0020	<0.0050	0.02	<0.010	0.057	<0.0050	<0.0038	2.2	230	67
SS-35 10FT	04/04/2024	10	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-36 6FT	04/04/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-37 6FT	04/04/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS-38 6FT	04/04/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS39 6FT	04/10/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS40 6FT	04/10/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS41 6FT	04/10/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS42 6FT	04/10/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS43 6FT	04/10/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
SS44 6FT	04/11/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS45 6FT	04/11/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS46 6FT	04/11/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS47 6FT	04/11/2024	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SS48 10FT	04/11/2024	10	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

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

Green highlighted cells indicate soil removed via excavation

* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
GRIGSBY AC19-62HN, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-022

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
Waste Char.	1/29/2024	Grab	3.990	2.160	2.850	<0.500	<0.500	<0.500	2.69	<0.500	0.904	16.4	<0.500	1.500	195	252
SS-01 6 Ft	1/31/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-06 6 Ft	1/31/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-07 6 Ft	1/31/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-09 6 Ft	1/31/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-14 6 Ft	1/31/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00544	0.00684
SS-19 4 Ft	2/2/2024	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-22 4 Ft	2/2/2024	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-23 6FT	04/04/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-24 6FT	04/04/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-25 6FT	04/04/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-26 6FT	04/04/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-27 6FT	04/04/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-28 6FT	04/04/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-29 10FT	04/04/2024	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
SS-30 6FT	04/04/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00953	<0.00500	<0.00500	0.0279	0.0459
SS-32 10FT	04/04/2024	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
SS-33 6FT	04/04/2024	6	0.210	0.076	0.210	<0.0500	<0.0500	<0.0500	0.101	<0.0500	0.068	1.78	<0.0500	0.062	13.5	14.1
SS-34 6FT	04/04/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0144	<0.00500	<0.00500	0.0522	0.0926
SS-35 10FT	04/04/2024	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
SS-36 6FT	04/04/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-37 6FT	04/04/2024	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-38 6FT	04/04/2024	6	<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
SS39 6FT	04/10/2024	6	<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
SS40 6FT	04/10/2024	6	<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
SS41 6FT	04/10/2024	6	<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
SS42 6FT	04/10/2024	6	<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
SS43 6FT	04/10/2024	6	<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
SS44 6FT	04/11/2024	6	<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
SS45 6FT	04/11/2024	6	<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
SS46 6FT	04/11/2024	6	<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
SS47 6FT	04/11/2024	6	<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
SS48 10FT	04/11/2024	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 ECMC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Green highlighted cells indicate soil removed via excavation

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
GRIGSBY AC19-62HN, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-022

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Max. Background Concentration (or Concentration Range)			8.70	8.30	14.70	-
Waste Char.	01/29/2024	Grab	7.71	0.343	1.14	<2.00
SS-01 6 Ft	1/31/2024	6	8.83	1.52	13.4	<2.00
SS-06 6 Ft	1/31/2024	6	8.64	4.62	9.08	<2.00
SS-07 6 Ft	1/31/2024	6	8.79	0.942	7.81	<2.00
SS-09 6 Ft	1/31/2024	6	9.76	1.65	20.8	<2.00
SS-14 6 Ft	1/31/2024	6	8.94	3.52	15.1	<2.00
SS-19 4 Ft	2/2/2024	4	8.23	0.938	5.9	<2.00
SS-22 4 Ft	2/2/2024	4	9.14	1.09	13.5	<2.00
SS-23 6FT	04/04/2024	6	8.36	3.05	31.0	<2.00
SS-24 6FT	04/04/2024	6	8.67	4.73	24.1	<2.00
SS-25 6FT	04/04/2024	6	7.54	2.96	15.7	<2.00
SS-26 6FT	04/04/2024	6	8.99	6.06	11.8	<2.00
SS-27 6FT	04/04/2024	6	8.78	4.01	19.9	<2.00
SS-28 6FT	04/04/2024	6	8.71	4.12	15.0	<2.00
SS-29 10FT	04/04/2024	10	6.87	3.89	17.0	<2.00
SS-30 6FT	04/04/2024	6	8.97	3.22	27.2	<2.00
SS-32 10FT	04/04/2024	10	7.62	5.44	10.8	<2.00
SS-33 6FT	04/04/2024	6	9.03	2.44	22.8	<2.00
SS-34 6FT	04/04/2024	6	8.65	3.79	24.1	<2.00
SS-35 10FT	04/04/2024	10	8.15	4.3	9.72	<2.00
SS-36 6FT	04/04/2024	6	8.01	2.6	4.12	<2.00
SS-37 6FT	04/04/2024	6	8.14	1.76	10.8	<2.00
SS-38 6FT	04/04/2024	6	8.85	1.57	7.96	<2.00
SS39 6FT	04/10/2024	6	8.89	0.187	22.9	<2.00
SS40 6FT	04/10/2024	6	9.11	1.38	20.3	<2.00
SS41 6FT	04/10/2024	6	7.30	1.37	16.2	<2.00

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
SS42 6FT	04/10/2024	6	8.67	1.16	20.1	<2.00
SS43 6FT	04/10/2024	6	8.44	0.81	16.1	<2.00
SS44 6FT	04/11/2024	6	8.01	1.68	14.9	<2.00
SS45 6FT	04/11/2024	6	8.14	0.332	3.45	<2.00
SS46 6FT	04/11/2024	6	7.97	0.571	9.11	<2.00
SS47 6FT	04/11/2024	6	7.79	0.664	6.86	<2.00
SS48 10FT	04/11/2024	10	8.71	0.727	12.1	<2.00
BKG01 3FT	04/10/2024	3	8.00	0.143	1.09	<2.00
BKG01 6FT	04/10/2024	6	8.52	0.161	0.917	<2.00
BKG02 3FT	04/10/2024	3	7.98	8.3	13.1	<2.00
BKG02 6FT	04/10/2024	6	8.70	4.73	14.7	<2.00
BKG03 3FT	04/10/2024	3	7.76	0.256	0.305	<2.00
BKG03 6FT	04/10/2024	6	8.43	0.726	2.06	<2.00
BKG04 3FT	04/10/2024	3	8.11	1.06	6.01	<2.00
BKG04 6FT	04/10/2024	6	7.66	1.25	3.76	<2.00
BKG05 3FT	04/10/2024	3	7.56	4.32	6.41	<2.00
BKG05 6FT	04/10/2024	6	7.79	1.13	4.05	<2.00

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

Green highlighted cells indicate soil removed via excavation

Orange highlighted cells exceed of the maximum background concentration, or concentration range

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.
GRIGSBY AC19-62HN, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-022

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
125% Max. Background Concentration			13.1	185	0.461	-	-	15	-	0.521	-	-
Waste Char.	01/29/2024	Grab	1.78	30.5	<0.200	<0.30	3.09	2.97	2.4	<0.260	<0.0200	8.74
SS-01 6 Ft	1/31/2024	6	1.72	17.9	0.25	<0.30	10.1	15.1	5.2	<0.260	0.0509	28.7
SS-06 6 Ft	1/31/2024	6	3.22	10.3	0.23	<0.30	10.1	13.9	5.51	<0.260	0.0412	32.7
SS-07 6 Ft	1/31/2024	6	4.2	13.1	0.26	<0.30	7.39	9.17	7.87	<0.260	0.0345	44.9
SS-09 6 Ft	1/31/2024	6	5.3	23.8	0.33	<0.30	12	15.1	8.66	<0.260	0.0521	49.1
SS-14 6 Ft	1/31/2024	6	3.74	19	0.28	<0.30	9.33	12.4	7.38	<0.260	0.0437	37.8
SS-19 4 Ft	2/2/2024	4	2.02	13.6	0.205	<0.30	8.89	14	4.17	<0.260	0.0603	24.6
SS-22 4 Ft	2/2/2024	4	5.5	33.7	0.298	<0.30	8.59	14.5	5.26	<0.260	0.0502	28.5
SS-23 6FT	04/04/2024	6	5.62	94.8	0.337	<0.30	20.3	12.5	5.84	<0.260	0.0889	32.2
SS-24 6FT	04/04/2024	6	1.97	112	0.226	<0.30	11.6	9.64	5.12	<0.260	0.0585	31
SS-25 6FT	04/04/2024	6	6.36	58.1	0.341	<0.30	18.5	12.8	7.81	<0.260	0.069	42.9
SS-26 6FT	04/04/2024	6	4.32	10.1	0.233	<0.30	8.85	6.55	6.69	<0.260	0.0526	34
SS-27 6FT	04/04/2024	6	3.49	9.6	<0.200	<0.30	6.56	6.38	5.96	<0.260	0.0478	31.8
SS-28 6FT	04/04/2024	6	3.46	11.1	<0.200	<0.30	6.2	6.16	6.02	<0.260	0.0425	31.8
SS-29 10FT	04/04/2024	10	1.9	11.7	<0.200	<0.30	3.56	5.35	4.39	<0.260	0.0555	27.2
SS-30 6FT	04/04/2024	6	3.41	71.4	0.25	<0.30	13.6	10.8	6.01	<0.260	0.0684	33.9
SS-32 10FT	04/04/2024	10	2.90	47.4	0.433	<0.30	18.1	15.8	7.98	1.46	0.167	31.6
SS-33 6FT	04/04/2024	6	3.57	17.6	0.335	<0.30	18.3	12.1	5.05	<0.260	0.0845	26.8
SS-34 6FT	04/04/2024	6	2.44	69.1	0.221	<0.30	12.4	9.87	5.12	<0.260	0.0649	26.9
SS-35 10FT	04/04/2024	10	1.61	169	0.284	<0.30	19.5	15.0	5.81	<0.260	0.113	22.7
SS-36 6FT	04/04/2024	6	4.86	108	0.228	<0.30	6.24	6.92	4.04	0.334	0.0505	21.8
SS-37 6FT	04/04/2024	6	1.28	15.6	0.254	<0.30	16.2	13.3	5.05	<0.260	0.0709	21.9
SS-38 6FT	04/04/2024	6	2.72	25.5	0.222	<0.30	15.3	14.2	7.22	<0.260	0.0733	26.5
SS39 6FT	04/10/2024	6	5.15	36.1	0.611	<0.30	26	21.5	19.6	<0.260	0.0828	25.9
SS40 6FT	04/10/2024	6	3.88	20.7	0.288	<0.30	7.1	9.61	5.71	<0.236	0.0417	31.7
SS41 6FT	04/10/2024	6	5.47	36.3	0.472	<0.30	7.65	11.0	12	<0.260	0.0405	34.4
SS42 6FT	04/10/2024	6	3.32	12.3	0.3	<0.30	6.4	9.94	6.04	<0.260	0.0304	32.8
SS43 6FT	04/10/2024	6	3.39	42.6	0.439	<0.30	8.98	14.2	5.76	<0.260	0.0703	26.1
SS44 6FT	04/11/2024	6	5.36	52.4	0.437	<0.30	9.97	14.9	4.87	<0.234	0.0645	30.1
SS45 6FT	04/11/2024	6	2.77	28.9	0.269	<0.30	7.95	13.2	5.15	<0.260	0.0465	28.6
SS46 6FT	04/11/2024	6	3.29	10.4	0.206	<0.30	5.03	6.89	7.11	<0.260	0.026	32.1
SS47 6FT	04/11/2024	6	1.59	15.7	0.263	<0.30	7.22	11.4	4.14	<0.260	0.0536	20.3
SS48 10FT	04/11/2024	10	2.77	17.3	0.247	<0.30	7.05	10.5	4.84	<0.260	0.0469	27.6
BKG01 3FT	04/10/2024	3	4.51	51	0.316	<0.30	4.28	8.89	3.94	0.243	0.0303	20

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BKG01 6FT	04/10/2024	6	3.2	47.3	0.28	<0.30	4.18	8.05	3.42	<0.234	0.0254	17.7
BKG02 3FT	04/10/2024	3	10.5	85.5	0.317	<0.30	5.91	10.9	6.98	0.398	0.0386	20.9
BKG02 6FT	04/10/2024	6	6.48	38.5	0.337	<0.30	5.56	12	4.77	0.364	0.0346	23.7
BKG03 3FT	04/10/2024	3	3.28	45.4	0.24	<0.30	4.17	8.08	3.32	<0.260	0.0237	15.5
BKG03 6FT	04/10/2024	6	5.03	148	0.369	<0.30	5.9	10.6	6.88	0.417	0.0518	24.9
BKG04 3FT	04/10/2024	3	4.78	76.6	0.269	<0.30	4.23	7.92	3.87	0.374	0.0263	19.2
BKG04 6FT	04/10/2024	6	7.61	95.4	0.323	<0.30	4.48	8.42	4.85	0.239	0.0278	21
BKG05 3FT	04/10/2024	3	2.58	61.5	0.228	<0.30	3.87	7.35	3.55	<0.260	0.0247	16.6
BKG05 6FT	04/10/2024	6	3.2	92.6	0.243	<0.30	4.32	7.6	4.17	0.293	0.0281	19.9

Bold faced values exceed the ECMC Table 915-1 concentrations

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

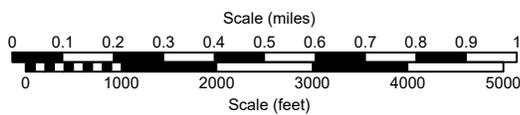
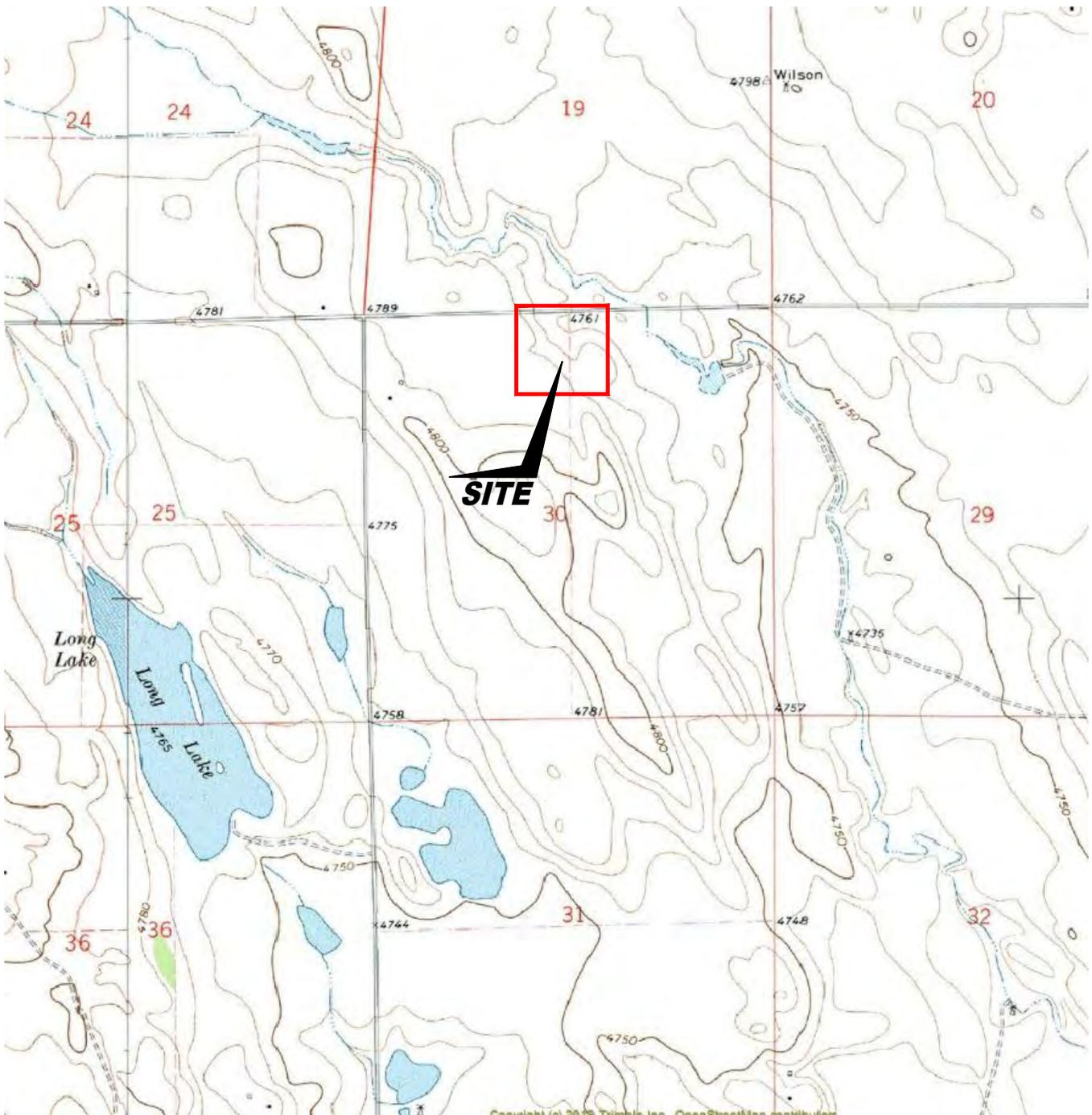
Orange highlighted cells exceed 125% of the maximum background concentration

* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

NA - Not analyzed

FIGURES



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

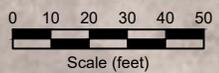
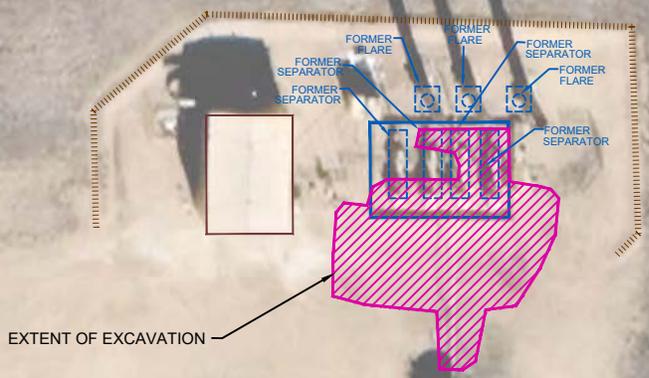
Noble Energy, Inc. ~ Grigsby AC19-62HN
 NENE, Sec 30, T7N, R63W, 6th P.M.
 Weld County, Colorado
 40.551843 ° -104.470751 °

Project No. CO24-022	Spill # 486087	Facility # 427074
Date 7/17/24	Remediation #	Filename 24022T



EXCAVATION TOTAL
 ~ 1,142 cubic yards
 Soil transported to N. Weld Landfill,
 Ault, Colorado

COUNTY ROAD 78



LEGEND

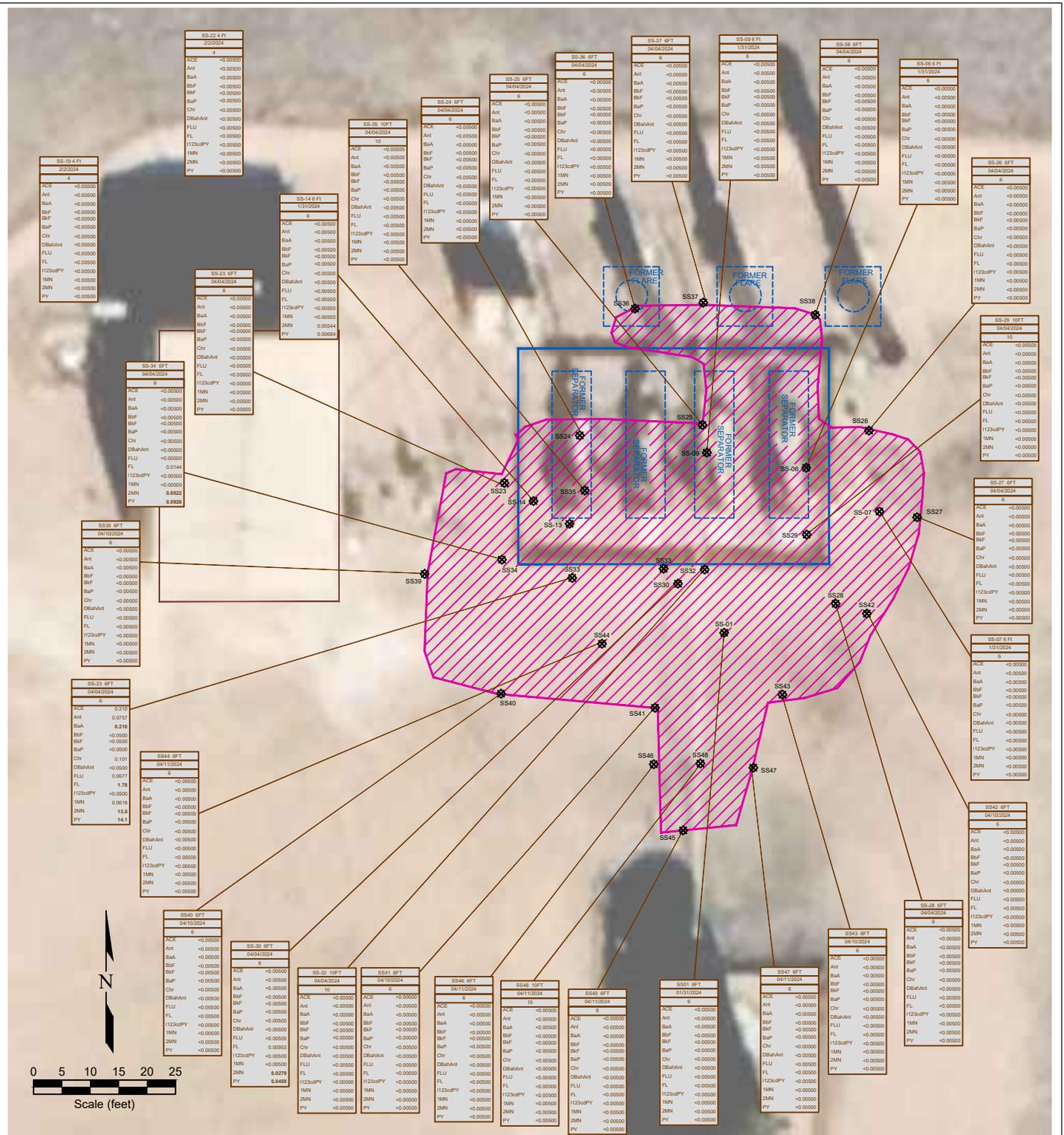
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FENCE LINE
- EXCAVATED AREA
- BUILDING
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION

Figure 2
SITE MAP

Noble Energy, Inc. ~ Grigsby AC19-62HN
 NENE, Sec 30, T7N, R63W, 6th P.M.
 Weld County, Colorado
 40.551843 ° -104.470751°

Project No. CO24-022	Spill # 486087	Facility # 427074
Date 7/17/24	Remediation #	Filename 24022Q1





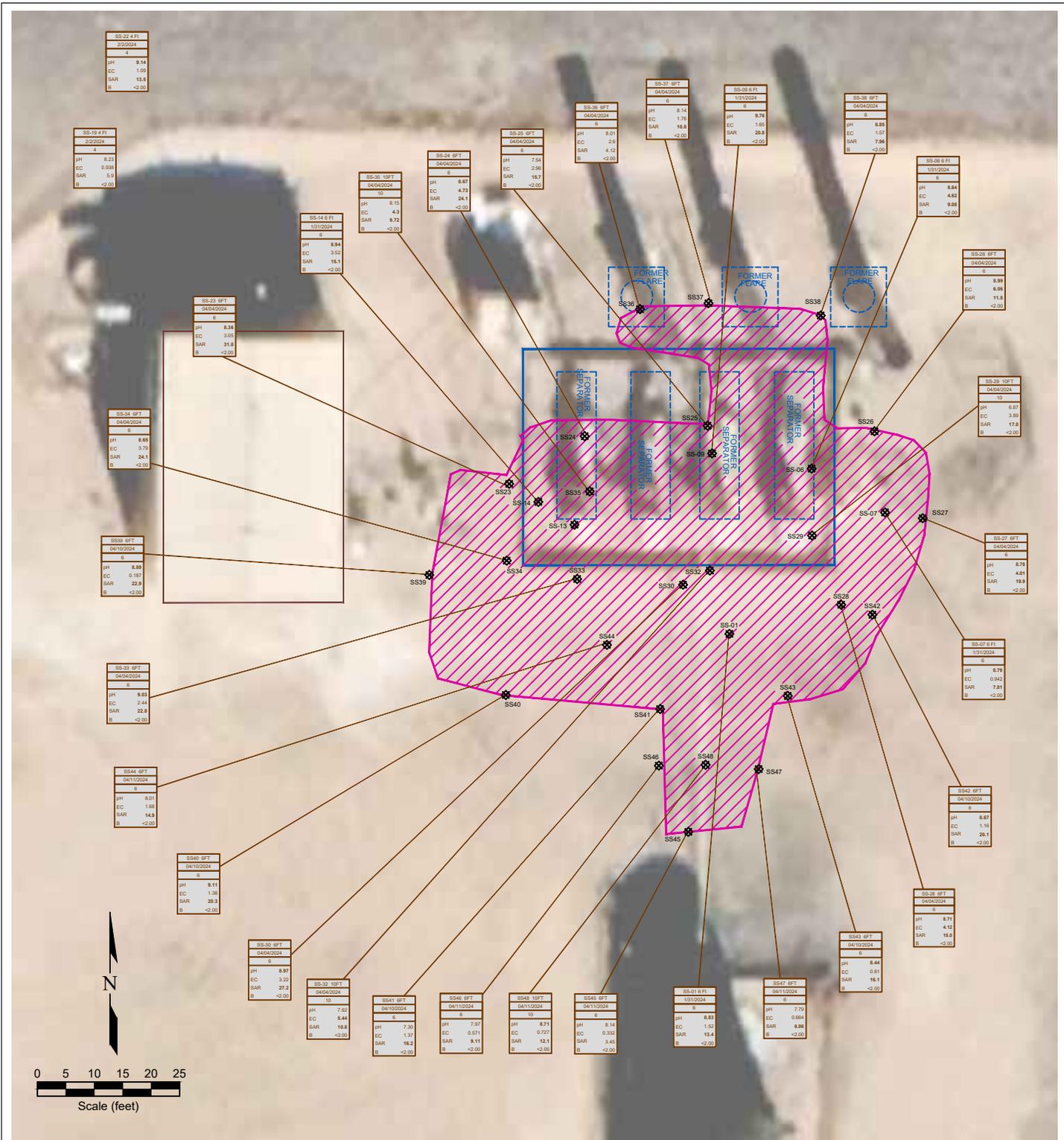
LEGEND

- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY BUILDING
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXCAVATED AREA
- EXTENT OF EXCAVATION

SAMPLE ID	SAMPLE DATE	DEPTH (ft)	ACENAPHTHENE (mg/kg)	ANTHRACENE (mg/kg)	BENZO (A) ANTHRACENE (mg/kg)	BENZO (A) PYRENE (mg/kg)	BENZO (K) FLUORANTHENE (mg/kg)	CHRYSENE (mg/kg)	QUINZ (A,H) ANTHRACENE (mg/kg)	FLUORANTHENE (mg/kg)	FLUORENE (mg/kg)	INDENO (1,2,3-C) PYRENE (mg/kg)	1-METHYLNAPHTHALENE (mg/kg)	2-METHYLNAPHTHALENE (mg/kg)	PYRENE (mg/kg)
ACE	<0.0050														
Ant	<0.0050														
BAA	<0.0050														
BAF	<0.0050														
BbF	<0.0050														
BbP	<0.0050														
Chv	<0.0050														
DBaAnt	<0.0050														
FLU	<0.0050														
FL	<0.0050														
H123aPY	<0.0050														
MN	<0.0050														
MN	<0.0050														
2MN	<0.0050														
PY	<0.0050														

Figure 4
PAH IN SOIL CHEMISTRY MAP
 Noble Energy, Inc. ~ Grigsby AC19-62HN
 NENE, Sec 30, T7N, R63W, 6th P.M.
 Weld County, Colorado
 40.551843 ° -104.470751 °

Project No. CO24-022	Spill # 486087	Facility # 427074
Date 7/17/24	Remediation #	Filename 24022Q



LEGEND

- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXCAVATED AREA
- BUILDING
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION

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

Figure 6
INORGANIC SOIL CHEMISTRY MAP

Noble Energy, Inc. ~ Grigsby AC19-62HN
NENE, Sec 30, T7N, R63W, 6th P.M.
Weld County, Colorado
40.551843 ° -104.470751 °

Project No. CO24-022	Spill # 486087	Facility # 427074	
Date 7/17/24	Remediation #	Filename 24022Q	

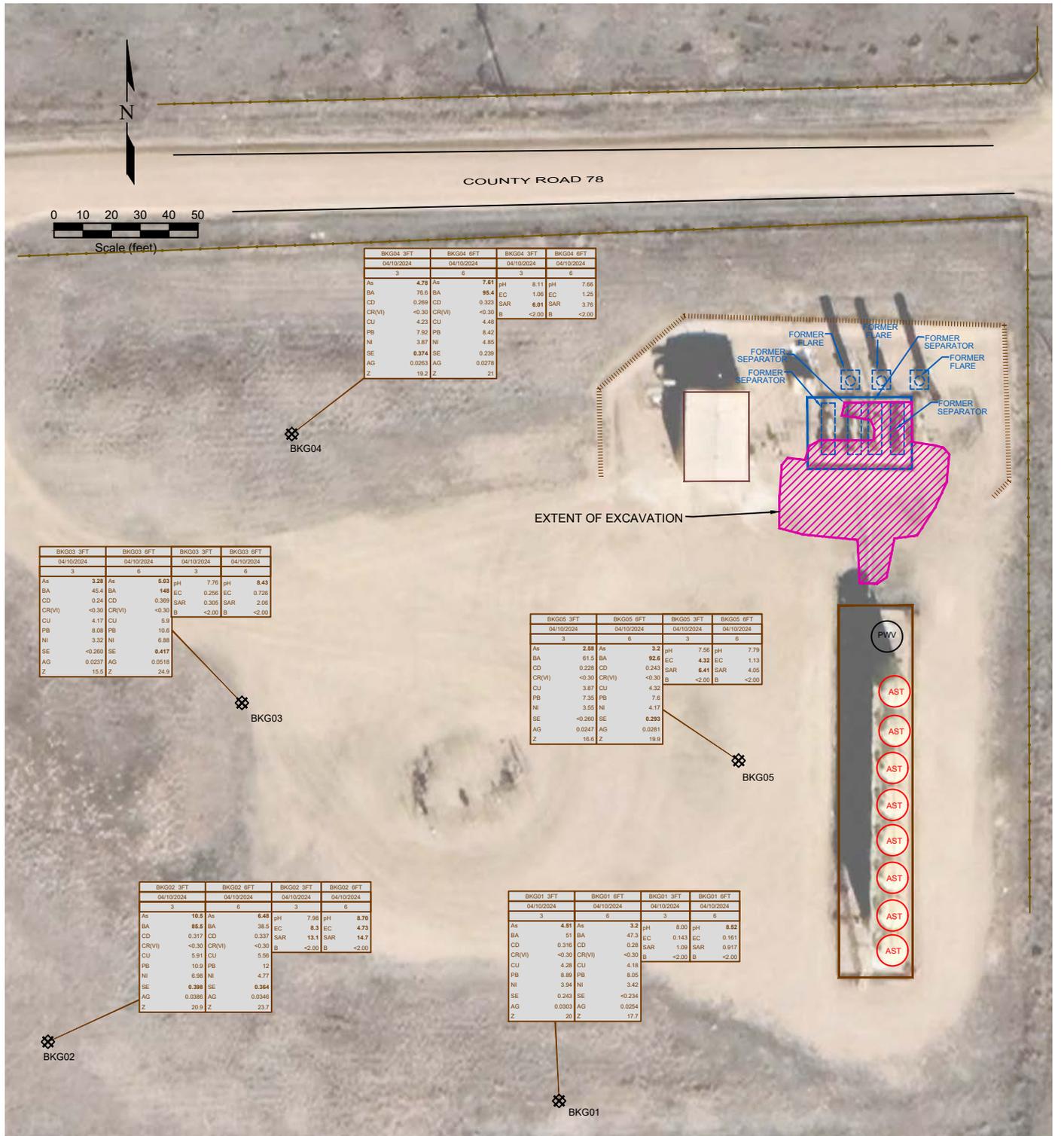


Figure 7
BACKGROUND SAMPLE SOIL CHEMISTRY MAP

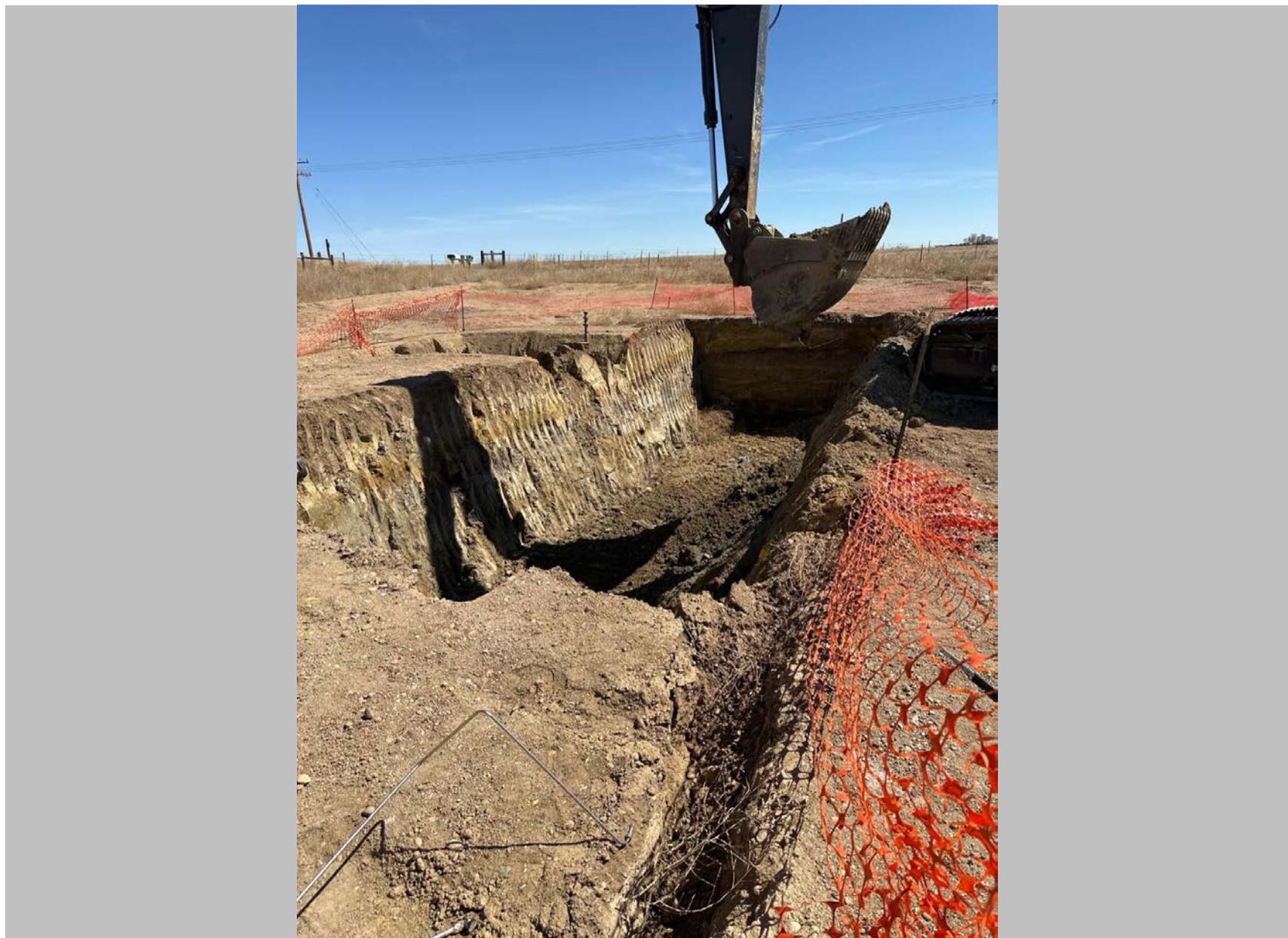
Noble Energy, Inc. ~ Grigsby AC19-62HN
 NENE, Sec 30, T7N, R63W, 6th P.M.
 Weld County, Colorado
 40.551843 ° -104.470751 °

SAMPLE	SAMPLE ID	DATE SAMPLED	DATE SAMPLED		
DEPTH	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)		
As	<-0.01	ARSENIC (mg/kg)	pH	<-0.01	pH (units)
Ba	<-0.01	BARIUM (mg/kg)	EC	7.06	EC (mmhos/cm)
CD	<-0.01	CADMIUM (mg/kg)	SAR	<-	SAR (units)
CR(VI)	<-0.05	CHROMIUM (mg/kg)	BORON	<-	BORON (mg/L)
CU	<-0.01	COPPER (mg/kg)			
PB	<-0.05	LEAD (mg/kg)			
NI	<-0.05	NICKEL (mg/kg)			
SE	<-0.5	SELENIUM (mg/kg)			
AG	<-0.5	SILVER (mg/kg)			
Z	<-0.05	ZINC (mg/kg)			

Project No. CO24-022	Spill # 486087	Facility # 427074	
Date 7/17/24	Remediation #	Filename 24022Q1	

APPENDIX A

PHOTO LOG



Description:

1 - Grigsby AC19-62HN separator release excavation , looking E

Photo Log



Description:

2 - Grigsby AC19-62HN separator release excavation , looking W

Photo Log



Description:

3 - Grigsby AC19-62HN separator release excavation , looking SE

Photo Log



Description:

4- Grigsby AC19-62HN separator release excavation, looking SE toward initial release location (center)

Photo Log



Description:

5 - Grigsby AC19-62HN separator release excavation, looking E with fmr. sep. locations in view

Photo Log



Description:

6 - Grigsby AC19-62HN separator release excavation , looking N along dumpline trench, rainwater pooling in the excavation floor from previous night

Photo Log



Description:

7 - Grigsby AC19-62HN separator release main excavation, looking N, rainwater pooling in the excavation floor from previous night



Description:

8 - Grigsby AC19-62HN separator release excavation , looking NE, rainwater pooling in the excavation floor from previous night

APPENDIX B

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 22, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Chevron - Grigsby AC19-62HN

Work Order #2404075

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

Sincerely,



Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-23 6FT	2404075-01	Soil	04/04/24 12:10	04/04/24 16:30
SS-24 6FT	2404075-02	Soil	04/04/24 12:15	04/04/24 16:30
SS-25 6FT	2404075-03	Soil	04/04/24 12:20	04/04/24 16:30
SS-26 6FT	2404075-04	Soil	04/04/24 12:25	04/04/24 16:30
SS-27 6FT	2404075-05	Soil	04/04/24 12:30	04/04/24 16:30
SS-28 6FT	2404075-06	Soil	04/04/24 12:35	04/04/24 16:30
SS-29 10FT	2404075-07	Soil	04/04/24 12:40	04/04/24 16:30
SS-30 6FT	2404075-08	Soil	04/04/24 12:45	04/04/24 16:30
SS-32 10FT	2404075-09	Soil	04/04/24 12:50	04/04/24 16:30
SS-33 6FT	2404075-10	Soil	04/04/24 12:55	04/04/24 16:30
SS-34 6FT	2404075-11	Soil	04/04/24 13:00	04/04/24 16:30
SS-35 10FT	2404075-12	Soil	04/04/24 13:05	04/04/24 16:30
SS-36 6FT	2404075-13	Soil	04/04/24 13:10	04/04/24 16:30
SS-37 6FT	2404075-14	Soil	04/04/24 13:15	04/04/24 16:30
SS-38 6FT	2404075-15	Soil	04/04/24 13:20	04/04/24 16:30

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2404075	

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: <u>Cherwon</u>	
Address: 8305 6th Street		E-Mail: Fremont Distribution List		Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		Project Name: <u>Crigby AC 19-62HN</u>		AFE#:	
Phone: 603-477-6907		Project Number: <u>2024-022</u>		PO/Billing Codes:	
Sampler Name: Aaron Otilar		Contact: <u>Don Peterson</u>			

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)		SAR, EC, pH, Boron
1	SS-23 6FT	4/4/24	1210	2			X			X			X	X	X	X	X		
2	SS-24 6FT		1215																
3	SS-25 6FT		1220																
4	SS-26 6FT		1225																
5	SS-27 6FT		1230																
6	SS-28 6FT		1235																
7	SS-29 10FT		1240																
8	SS-30 6FT		1245																
9	SS-32 10FT		1250																
10	SS-33 6FT		1255																
11	SS-34 6FT		1300																
12	SS-35 10FT		1305																
13	SS-36 6FT		1310																
14	SS-37 6FT		1315																
15	SS-38 6FT		1320																

Relinquished by: <u>Aaron Otilar</u>	Date/Time: <u>4/4/24 1527</u>	Received by: <u>Summit North Office</u>	Date/Time: <u>4/4/24 1527</u>	TAT Business Days	Field DO	Notes:	
				Same Day	X		Field EC
				1 Day			Field ORP
				2 Days			Field pH
				3 Days			Field Temp.
				Standard		Field Turb.	
Temperature Upon Receipt: <u>12.9</u>	Corrected Temperature: <u>8</u>	IR gun #:	HNO3 lot #:				

S₂

Sample Receipt Checklist

S2 Work Order# 2404075

Client: Fremont Client Project ID: Grigsby Ac 19-02HN

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

-

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

Temp (°C) 12.9 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on site</u>
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>same day</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe 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"/>	<u>#</u>
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<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

4/4/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-23 6FT
2404075-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0372	92.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	3.74	29.9 %	30-150		"	"	"	"	S-04

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-23 6FT
2404075-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0191	57.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0215	64.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/04/24 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: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-23 6FT
2404075-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.62	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	94.8	0.400	"	"	"	"	"	"	
Cadmium	0.337	0.200	"	"	"	"	"	"	
Copper	20.3	0.400	"	"	"	"	"	"	
Lead	15.1	0.200	"	"	"	"	"	"	
Nickel	5.84	0.400	"	"	"	"	"	"	
Silver	0.0889	0.0200	"	"	"	"	"	"	
Zinc	32.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8.21	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	18.4	0.0500	"	"	"	"	"	"	
Sodium	707	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	31.4	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/24 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: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-23 6FT
2404075-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.9	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.05	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-24 6FT
2404075-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0353	88.2 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	4.58	36.6 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-24 6FT
2404075-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0250	75.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0262	78.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

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

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: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-24 6FT
2404075-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.97	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	112	0.400	"	"	"	"	"	"
Cadmium	0.226	0.200	"	"	"	"	"	"
Copper	11.6	0.400	"	"	"	"	"	"
Lead	9.64	0.200	"	"	"	"	"	"
Nickel	5.12	0.400	"	"	"	"	"	"
Silver	0.0585	0.0200	"	"	"	"	"	"
Zinc	31.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.7	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	60.0	0.0500	"	"	"	"	"	"	
Sodium	1070	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	27.5	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

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: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-24 6FT
2404075-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.9	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.73	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.67		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-25 6FT
2404075-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0336	83.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.30	50.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-25 6FT
2404075-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0249	74.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Paul Henchan

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05/22/24 11:24

SS-25 6FT
2404075-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	6.36	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	58.1	0.400	"	"	"	"	"	"
Cadmium	0.341	0.200	"	"	"	"	"	"
Copper	18.5	0.400	"	"	"	"	"	"
Lead	12.8	0.200	"	"	"	"	"	"
Nickel	7.81	0.400	"	"	"	"	"	"
Silver	0.0690	0.0200	"	"	"	"	"	"
Zinc	42.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6.65	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	19.2	0.0500	"	"	"	"	"	"	
Sodium	665	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	29.6	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-25 6FT
2404075-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.8	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.96	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.22		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-26 6FT
2404075-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

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	0.0402	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.48	43.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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05/22/24 11:24

SS-26 6FT
2404075-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0250	75.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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2404075-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.32	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	10.1	0.400	"	"	"	"	"	"
Cadmium	0.233	0.200	"	"	"	"	"	"
Copper	8.85	0.400	"	"	"	"	"	"
Lead	6.55	0.200	"	"	"	"	"	"
Nickel	6.69	0.400	"	"	"	"	"	"
Silver	0.0526	0.0200	"	"	"	"	"	"
Zinc	34.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.0	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	96.0	0.0500	"	"	"	"	"	"	
Sodium	1320	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	26.1	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SS-26 6FT
2404075-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.8	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.06	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.99		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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05/22/24 11:24

SS-27 6FT
2404075-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0330	82.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0427	107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0411	103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.85	54.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2404075-05 (Soil)

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PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0226	67.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-27 6FT
2404075-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.49	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	9.60	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.56	0.400	"	"	"	"	"	"	
Lead	6.38	0.200	"	"	"	"	"	"	
Nickel	5.96	0.400	"	"	"	"	"	"	
Silver	0.0478	0.0200	"	"	"	"	"	"	
Zinc	31.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.3	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	47.6	0.0500	"	"	"	"	"	"	
Sodium	893	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	24.7	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-27 6FT
2404075-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.7		%	1	BHD0212	04/08/24	04/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.01	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.89		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-28 6FT
2404075-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

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	0.0429	107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.59	68.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-28 6FT
2404075-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	49.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-28 6FT
2404075-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.46	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	11.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.20	0.400	"	"	"	"	"	"	
Lead	6.16	0.200	"	"	"	"	"	"	
Nickel	6.02	0.400	"	"	"	"	"	"	
Silver	0.0425	0.0200	"	"	"	"	"	"	
Zinc	31.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8.08	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	23.4	0.0500	"	"	"	"	"	"	
Sodium	901	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	36.3	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-28 6FT
2404075-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BHD0212	04/08/24	04/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.12	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.15		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-29 10FT
2404075-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/05/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0308	77.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0429	107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.16	57.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-29 10FT
2404075-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0170	51.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/04/24 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: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-29 10FT
2404075-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.90	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	11.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.56	0.400	"	"	"	"	"	"	
Lead	5.35	0.200	"	"	"	"	"	"	
Nickel	4.39	0.400	"	"	"	"	"	"	
Silver	0.0555	0.0200	"	"	"	"	"	"	
Zinc	27.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.4	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	51.8	0.0500	"	"	"	"	"	"	
Sodium	820	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	21.4	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-29 10FT
2404075-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.2		%	1	BHD0212	04/08/24	04/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.89	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.87		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

Summit Scientific

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PO Box 1289
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-30 6FT
2404075-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.036	0.0020	mg/kg	1	BHD0154	04/04/24	04/05/24	EPA 8260B	
Toluene	0.020	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.030	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.072	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.094	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.023	0.0050	"	"	"	"	"	"	
Naphthalene	0.037	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.3	0.50	"	"	"	"	"	"	

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0254	63.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0462	116 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.92	63.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-30 6FT
2404075-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00953	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0279	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0459	0.00500	"	"	"	"	"	"	

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	48.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	62.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/04/24 12:45**

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: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-30 6FT
2404075-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.41	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	71.4	0.400	"	"	"	"	"	"
Cadmium	0.250	0.200	"	"	"	"	"	"
Copper	13.6	0.400	"	"	"	"	"	"
Lead	10.8	0.200	"	"	"	"	"	"
Nickel	6.01	0.400	"	"	"	"	"	"
Silver	0.0684	0.0200	"	"	"	"	"	"
Zinc	33.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.6	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	23.6	0.0500	"	"	"	"	"	"	
Sodium	696	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	27.2	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/24 12:45**

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: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-30 6FT
2404075-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.2	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.22	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.97		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-32 10FT
2404075-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/05/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0310	77.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0441	110 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.33	58.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-32 10FT
2404075-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	51.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-32 10FT
2404075-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	19.4	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	47.4	0.400	"	"	"	"	"	"	
Cadmium	0.433	0.200	"	"	"	"	"	"	
Copper	18.1	0.400	"	"	"	"	"	"	
Lead	29.4	0.200	"	"	"	"	"	"	
Nickel	7.98	0.400	"	"	"	"	"	"	
Silver	0.167	0.0200	"	"	"	"	"	"	
Zinc	31.6	0.400	"	"	"	"	"	"	
Selenium	1.46	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.2	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	101	0.0500	"	"	"	"	"	"	
Sodium	1290	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	25.1	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-32 10FT
2404075-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	76.3	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.44	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.62		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-33 6FT
2404075-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	3.3	0.20	mg/kg	100	BHD0154	04/04/24	04/05/24	EPA 8260B	
Toluene	0.12	0.0050	"	1	"	"	04/05/24	"	
Ethylbenzene	9.5	0.50	"	100	"	"	04/05/24	"	
Xylenes (total)	7.0	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	17	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.7	0.50	"	"	"	"	"	"	
Naphthalene	0.63	0.0038	"	1	"	"	04/05/24	"	
Gasoline Range Hydrocarbons	1500	50	"	100	"	"	04/05/24	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0414	104 %	50-150		"	"	04/05/24	"	
Surrogate: Toluene-d8	0.292	729 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.123	307 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	6600	50	mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	1500	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.63	77.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-33 6FT
2404075-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.210	0.0500	mg/kg	10	BHD0160	04/05/24	04/06/24	EPA 8270D SIM	
Anthracene	0.0757	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	0.210	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	R-05
Chrysene	0.101	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	R-05
Fluoranthene	0.0677	0.0500	"	"	"	"	"	"	
Fluorene	1.78	0.0500	"	"	"	"	"	"	E
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	R-05
Pyrene	0.0618	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	13.5	1.00	"	200	"	"	04/10/24	"	
2-Methylnaphthalene	14.1	1.00	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0344	103 %	40-150		"	"	04/06/24	"	
Surrogate: Fluoranthene-d10	0.0663	199 %	40-150		"	"	"	"	S-01

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-33 6FT
2404075-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.57	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	17.6	0.400	"	"	"	"	"	"	
Cadmium	0.335	0.200	"	"	"	"	"	"	
Copper	18.3	0.400	"	"	"	"	"	"	
Lead	12.1	0.200	"	"	"	"	"	"	
Nickel	5.05	0.400	"	"	"	"	"	"	
Silver	0.0845	0.0200	"	"	"	"	"	"	
Zinc	26.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.4	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	15.2	0.0500	"	"	"	"	"	"	
Sodium	527	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	22.8	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-33 6FT
2404075-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.4	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.44	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.03		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-34 6FT
2404075-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.020	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.057	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.2	0.50	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	230	50	mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	67	50	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.0	88.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-34 6FT
2404075-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0144	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0522	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0926	0.00500	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0262	78.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/04/24 13:00**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-34 6FT
2404075-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.44	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	69.1	0.400	"	"	"	"	"	"
Cadmium	0.221	0.200	"	"	"	"	"	"
Copper	12.4	0.400	"	"	"	"	"	"
Lead	9.87	0.200	"	"	"	"	"	"
Nickel	5.12	0.400	"	"	"	"	"	"
Silver	0.0649	0.0200	"	"	"	"	"	"
Zinc	26.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.6	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	37.3	0.0500	"	"	"	"	"	"	
Sodium	837	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	24.1	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/24 13:00**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-34 6FT
2404075-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.4	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.79	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.65		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-35 10FT
2404075-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.3 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0431	108 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	6.40	51.2 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-35 10FT
2404075-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/04/24 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: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-35 10FT
2404075-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.61	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	169	0.400	"	"	"	"	"	"	
Cadmium	0.417	0.200	"	"	"	"	"	"	
Copper	19.5	0.400	"	"	"	"	"	"	
Lead	16.4	0.200	"	"	"	"	"	"	
Nickel	5.81	0.400	"	"	"	"	"	"	
Silver	0.113	0.0200	"	"	"	"	"	"	
Zinc	22.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.8	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	55.3	0.0500	"	"	"	"	"	"	
Sodium	1020	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	27.8	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-35 10FT
2404075-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	77.3	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.30	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-36 6FT
2404075-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/05/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0425	106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0439	110 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	96.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.49	67.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-36 6FT
2404075-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0202	60.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/04/24 13:10**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-36 6FT
2404075-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.86	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	108	0.400	"	"	"	"	"	"	
Cadmium	0.228	0.200	"	"	"	"	"	"	
Copper	6.24	0.400	"	"	"	"	"	"	
Lead	6.92	0.200	"	"	"	"	"	"	
Nickel	4.04	0.400	"	"	"	"	"	"	
Silver	0.0505	0.0200	"	"	"	"	"	"	
Zinc	21.8	0.400	"	"	"	"	"	"	
Selenium	0.334	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	238	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	99.0	0.0500	"	"	"	"	"	"	
Sodium	300	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.12	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-36 6FT
2404075-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.8	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.60	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-37 6FT
2404075-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/05/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0408	102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0435	109 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.1	80.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-37 6FT
2404075-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0148	44.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0165	49.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/04/24 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: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-37 6FT
2404075-14 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.28	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	15.6	0.400	"	"	"	"	"	"	
Cadmium	0.254	0.200	"	"	"	"	"	"	
Copper	16.2	0.400	"	"	"	"	"	"	
Lead	13.3	0.200	"	"	"	"	"	"	
Nickel	5.05	0.400	"	"	"	"	"	"	
Silver	0.0709	0.0200	"	"	"	"	"	"	
Zinc	21.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.4	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	16.5	0.0500	"	"	"	"	"	"	
Sodium	375	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	16.0	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/24 13:15**

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: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-37 6FT
2404075-14 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.9	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.76	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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PO Box 1289
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-38 6FT
2404075-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/05/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0410	103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0441	110 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.26	66.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-38 6FT
2404075-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/04/24 13:20**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

SS-38 6FT
2404075-15 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.72	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	25.5	0.400	"	"	"	"	"	"
Cadmium	0.526	0.200	"	"	"	"	"	"
Copper	15.3	0.400	"	"	"	"	"	"
Lead	14.2	0.200	"	"	"	"	"	"
Nickel	7.22	0.400	"	"	"	"	"	"
Silver	0.0733	0.0200	"	"	"	"	"	"
Zinc	26.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.0	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	14.0	0.0500	"	"	"	"	"	"	
Sodium	314	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	14.4	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/24 13:20**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

SS-38 6FT
2404075-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.6	%	1	BHD0212	04/08/24	04/08/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.57	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.85		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

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 BHD0154 - EPA 5030 Soil MS

Blank (BHD0154-BLK1)

Prepared: 04/04/24 Analyzed: 04/05/24

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0275		"	0.0400		68.8	50-150				
<i>Surrogate: Toluene-d8</i>	0.0449		"	0.0400		112	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0399		"	0.0400		99.8	50-150				

LCS (BHD0154-BS1)

Prepared: 04/04/24 Analyzed: 04/05/24

Benzene	0.0773	0.0020	mg/kg	0.100		77.3	70-130				
Toluene	0.106	0.0050	"	0.100		106	70-130				
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130				
m,p-Xylene	0.206	0.010	"	0.200		103	70-130				
o-Xylene	0.102	0.0050	"	0.100		102	70-130				
1,2,4-Trimethylbenzene	0.0936	0.0050	"	0.100		93.6	70-130				
1,3,5-Trimethylbenzene	0.0958	0.0050	"	0.100		95.8	70-130				
Naphthalene	0.0771	0.0038	"	0.100		77.1	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0270		"	0.0400		67.4	50-150				
<i>Surrogate: Toluene-d8</i>	0.0443		"	0.0400		111	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0421		"	0.0400		105	50-150				

Matrix Spike (BHD0154-MS1)

Source: 2404072-01

Prepared: 04/04/24 Analyzed: 04/05/24

Benzene	0.0716	0.0020	mg/kg	0.100	ND	71.6	70-130				
Toluene	0.102	0.0050	"	0.100	ND	102	70-130				
Ethylbenzene	0.0961	0.0050	"	0.100	ND	96.1	70-130				
m,p-Xylene	0.192	0.010	"	0.200	ND	96.2	70-130				
o-Xylene	0.0956	0.0050	"	0.100	ND	95.6	70-130				
1,2,4-Trimethylbenzene	0.0880	0.0050	"	0.100	ND	88.0	70-130				
1,3,5-Trimethylbenzene	0.0902	0.0050	"	0.100	ND	90.2	70-130				
Naphthalene	0.0736	0.0038	"	0.100	ND	73.6	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0254		"	0.0400		63.4	50-150				
<i>Surrogate: Toluene-d8</i>	0.0456		"	0.0400		114	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0401		"	0.0400		100	50-150				

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Fremont Environmental
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

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 BHD0154 - EPA 5030 Soil MS

Matrix Spike Dup (BHD0154-MSD1)	Source: 2404072-01			Prepared: 04/04/24 Analyzed: 04/05/24						
Benzene	0.0926	0.0020	mg/kg	0.100	ND	92.6	70-130	25.7	30	
Toluene	0.131	0.0050	"	0.100	ND	131	70-130	24.7	30	QM-07
Ethylbenzene	0.118	0.0050	"	0.100	ND	118	70-130	20.3	30	
m,p-Xylene	0.236	0.010	"	0.200	ND	118	70-130	20.3	30	
o-Xylene	0.114	0.0050	"	0.100	ND	114	70-130	17.4	30	
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	19.2	30	
1,3,5-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130	19.6	30	
Naphthalene	0.0811	0.0038	"	0.100	ND	81.1	70-130	9.62	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0259</i>		<i>"</i>	<i>0.0400</i>		<i>64.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0472</i>		<i>"</i>	<i>0.0400</i>		<i>118</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0428</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			

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 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHD0157 - EPA 3550A

Blank (BHD0157-BLK1)

Prepared: 04/04/24 Analyzed: 04/05/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		108		30-150			

LCS (BHD0157-BS1)

Prepared: 04/04/24 Analyzed: 04/05/24

C10-C28 (DRO)	528	50	mg/kg	500		106		70-130			
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5		117		30-150			

Matrix Spike (BHD0157-MS1)

Source: 2404072-01

Prepared: 04/04/24 Analyzed: 04/05/24

C10-C28 (DRO)	481	50	mg/kg	500	17.5	92.7		70-130			
Surrogate: <i>o</i> -Terphenyl	10.7		"	12.5		86.0		30-150			

Matrix Spike Dup (BHD0157-MSD1)

Source: 2404072-01

Prepared: 04/04/24 Analyzed: 04/05/24

C10-C28 (DRO)	485	50	mg/kg	500	17.5	93.6		70-130	0.889	20	
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		99.9		30-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0160 - EPA 5030 Soil MS

Blank (BHD0160-BLK1)

Prepared & Analyzed: 04/05/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0307</i>		<i>"</i>	<i>0.0333</i>		<i>92.0</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0322</i>		<i>"</i>	<i>0.0333</i>		<i>96.6</i>		<i>40-150</i>		

LCS (BHD0160-BS1)

Prepared & Analyzed: 04/05/24

Acenaphthene	0.0355	0.00500	mg/kg	0.0333	107	31-137
Anthracene	0.0376	0.00500	"	0.0333	113	30-120
Benzo (a) anthracene	0.0355	0.00500	"	0.0333	107	30-120
Benzo (a) pyrene	0.0281	0.00500	"	0.0333	84.4	30-120
Benzo (b) fluoranthene	0.0287	0.00500	"	0.0333	86.1	30-120
Benzo (k) fluoranthene	0.0291	0.00500	"	0.0333	87.3	30-120
Chrysene	0.0365	0.00500	"	0.0333	110	30-120
Dibenz (a,h) anthracene	0.0310	0.00500	"	0.0333	92.9	30-120
Fluoranthene	0.0366	0.00500	"	0.0333	110	30-120
Fluorene	0.0358	0.00500	"	0.0333	108	30-120
Indeno (1,2,3-cd) pyrene	0.0353	0.00500	"	0.0333	106	30-120
Pyrene	0.0415	0.00500	"	0.0333	124	35-142
1-Methylnaphthalene	0.0320	0.00500	"	0.0333	96.0	35-142
2-Methylnaphthalene	0.0433	0.00500	"	0.0333	130	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0333</i>		<i>"</i>	<i>0.0333</i>	<i>99.8</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0356</i>		<i>"</i>	<i>0.0333</i>	<i>107</i>	<i>40-150</i>

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0160 - EPA 5030 Soil MS

Matrix Spike (BHD0160-MS1)	Source: 2404022-01			Prepared & Analyzed: 04/05/24						
Acenaphthene	0.0241	0.00500	mg/kg	0.0333	ND	72.4	31-137			
Anthracene	0.0300	0.00500	"	0.0333	0.00500	74.9	30-120			
Benzo (a) anthracene	0.0359	0.00500	"	0.0333	0.0125	70.0	30-120			
Benzo (a) pyrene	0.0210	0.00500	"	0.0333	0.00760	40.3	30-120			
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333	0.0111	43.8	30-120			
Benzo (k) fluoranthene	0.0198	0.00500	"	0.0333	0.00538	43.2	30-120			
Chrysene	0.0305	0.00500	"	0.0333	0.0114	57.3	30-120			
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	43.0	30-120			
Fluoranthene	0.0546	0.00500	"	0.0333	0.0302	72.9	30-120			
Fluorene	0.0257	0.00500	"	0.0333	ND	77.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0208	0.00500	"	0.0333	ND	62.5	30-120			
Pyrene	0.0525	0.00500	"	0.0333	0.0274	75.4	35-142			
1-Methylnaphthalene	0.0212	0.00500	"	0.0333	ND	63.5	15-130			
2-Methylnaphthalene	0.0310	0.00500	"	0.0333	ND	93.1	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0218</i>		<i>"</i>	<i>0.0333</i>		<i>65.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0264</i>		<i>"</i>	<i>0.0333</i>		<i>79.2</i>	<i>40-150</i>			

Matrix Spike Dup (BHD0160-MSD1)	Source: 2404022-01			Prepared & Analyzed: 04/05/24						
Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.6	31-137	9.90	30	
Anthracene	0.0278	0.00500	"	0.0333	0.00500	68.4	30-120	7.51	30	
Benzo (a) anthracene	0.0377	0.00500	"	0.0333	0.0125	75.5	30-120	4.91	30	
Benzo (a) pyrene	0.0226	0.00500	"	0.0333	0.00760	45.0	30-120	7.26	30	
Benzo (b) fluoranthene	0.0277	0.00500	"	0.0333	0.0111	50.0	30-120	7.63	30	
Benzo (k) fluoranthene	0.0195	0.00500	"	0.0333	0.00538	42.2	30-120	1.57	30	
Chrysene	0.0309	0.00500	"	0.0333	0.0114	58.7	30-120	1.50	30	
Dibenz (a,h) anthracene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	0.244	30	
Fluoranthene	0.0552	0.00500	"	0.0333	0.0302	74.8	30-120	1.13	30	
Fluorene	0.0245	0.00500	"	0.0333	ND	73.5	30-120	4.63	30	
Indeno (1,2,3-cd) pyrene	0.0220	0.00500	"	0.0333	ND	66.1	30-120	5.53	30	
Pyrene	0.0512	0.00500	"	0.0333	0.0274	71.6	35-142	2.49	30	
1-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.0	15-130	12.6	50	
2-Methylnaphthalene	0.0258	0.00500	"	0.0333	ND	77.5	15-130	18.3	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0195</i>		<i>"</i>	<i>0.0333</i>		<i>58.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>72.9</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

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

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

Batch BHD0364 - EPA 3050B

Blank (BHD0364-BLK1)

Prepared: 04/11/24 Analyzed: 04/25/24

Boron ND 2.00 mg/L

LCS (BHD0364-BS1)

Prepared: 04/11/24 Analyzed: 04/25/24

Boron 4.65 2.00 mg/L 5.00 93.1 80-120

Duplicate (BHD0364-DUP1)

Source: 2403288-15

Prepared: 04/11/24 Analyzed: 04/25/24

Boron 0.171 2.00 mg/L 0.233 30.7 20 QR-01

Matrix Spike (BHD0364-MS1)

Source: 2403288-15

Prepared: 04/11/24 Analyzed: 04/25/24

Boron 4.76 2.00 mg/L 5.00 0.233 90.4 75-125

Matrix Spike Dup (BHD0364-MSD1)

Source: 2403288-15

Prepared: 04/11/24 Analyzed: 04/25/24

Boron 4.80 2.00 mg/L 5.00 0.233 91.3 75-125 0.858 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0603 - EPA 3050B

Blank (BHD0603-BLK1)

Prepared: 04/18/24 Analyzed: 04/25/24

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

LCS (BHD0603-BS1)

Prepared: 04/18/24 Analyzed: 04/25/24

Arsenic	38.1	0.200	mg/kg wet	40.0	95.2	80-120
Barium	38.8	0.400	"	40.0	97.1	80-120
Cadmium	1.93	0.200	"	2.00	96.5	80-120
Copper	40.9	0.400	"	40.0	102	80-120
Lead	19.4	0.200	"	20.0	96.8	80-120
Nickel	39.3	0.400	"	40.0	98.3	80-120
Silver	1.98	0.0200	"	2.00	99.0	80-120
Zinc	38.6	0.400	"	40.0	96.6	80-120
Selenium	3.87	0.260	"	4.00	96.8	80-120

Duplicate (BHD0603-DUP1)

Source: 2402094-12

Prepared: 04/18/24 Analyzed: 04/25/24

Arsenic	5.64	0.200	mg/kg dry	6.34	11.8	20
Barium	303	0.400	"	312	2.91	20
Cadmium	0.506	0.200	"	0.480	5.33	20
Copper	13.1	0.400	"	13.7	4.07	20
Lead	12.7	0.200	"	13.7	7.65	20
Nickel	4.72	0.400	"	4.86	2.93	20
Silver	0.0828	0.0200	"	0.0689	18.3	20
Zinc	18.0	0.400	"	18.1	0.719	20
Selenium	ND	0.260	"	ND		20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0603 - EPA 3050B

Matrix Spike (BHD0603-MS1)

Source: 2402094-12

Prepared: 04/18/24 Analyzed: 04/25/24

Arsenic	57.2	0.200	mg/kg dry	49.6	6.34	102	75-125				
Barium	366	0.400	"	49.6	312	109	75-125				
Cadmium	2.93	0.200	"	2.48	0.480	98.8	75-125				
Copper	63.6	0.400	"	49.6	13.7	101	75-125				
Lead	35.5	0.200	"	24.8	13.7	88.1	75-125				
Nickel	30.5	0.400	"	49.6	4.86	51.7	75-125				QM-05
Silver	2.44	0.0200	"	2.48	0.0689	95.7	75-125				
Zinc	43.2	0.400	"	49.6	18.1	50.6	75-125				QM-05
Selenium	3.95	0.260	"	4.96	ND	79.6	75-125				

Matrix Spike Dup (BHD0603-MSD1)

Source: 2402094-12

Prepared: 04/18/24 Analyzed: 04/25/24

Arsenic	56.7	0.200	mg/kg dry	49.6	6.34	102	75-125	0.837	25		
Barium	374	0.400	"	49.6	312	126	75-125	2.24	25		QM-05
Cadmium	3.03	0.200	"	2.48	0.480	103	75-125	3.30	25		
Copper	63.2	0.400	"	49.6	13.7	99.9	75-125	0.640	25		
Lead	36.5	0.200	"	24.8	13.7	91.9	75-125	2.65	25		
Nickel	30.3	0.400	"	49.6	4.86	51.3	75-125	0.655	25		QM-05
Silver	2.51	0.0200	"	2.48	0.0689	98.4	75-125	2.70	25		
Zinc	42.7	0.400	"	49.6	18.1	49.7	75-125	1.07	25		QM-05
Selenium	3.87	0.260	"	4.96	ND	78.0	75-125	1.97	25		

Post Spike (BHD0603-PS1)

Source: 2402094-12

Prepared: 04/18/24 Analyzed: 04/25/24

Arsenic	119		ug/l	100	12.0	107	75-125				
Barium	725		"	100	591	134	75-125				QM-01
Cadmium	6.27		"	5.00	0.910	107	75-125				
Copper	136		"	100	25.9	110	75-125				
Lead	78.6		"	50.0	25.9	105	75-125				
Nickel	65.3		"	100	9.21	56.1	75-125				QM-01
Silver	5.36		"	5.00	0.131	105	75-125				
Zinc	92.1		"	100	34.3	57.8	75-125				QM-01
Selenium	8.88		"	10.0	0.261	86.2	75-125				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHD0345 - 3060A Mod

Blank (BHD0345-BLK1)

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0345-BS1)

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent 24.3 0.30 mg/kg wet 25.0 97.2 80-120

Duplicate (BHD0345-DUP1)

Source: 2403485-01

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0345-MS1)

Source: 2403485-01

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent 30.0 0.30 mg/kg dry 30.8 ND 97.6 75-125

Matrix Spike Dup (BHD0345-MSD1)

Source: 2403485-01

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent 30.2 0.30 mg/kg dry 30.8 ND 98.0 75-125 0.409 20

Summit Scientific

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 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

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

Summit Scientific

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

Batch BHD0414 - General Preparation

Blank (BHD0414-BLK1)

Prepared: 04/12/24 Analyzed: 05/21/24

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

LCS (BHD0414-BS1)

Prepared: 04/12/24 Analyzed: 05/21/24

Calcium	5.48	0.0500	mg/L wet	5.00		110	70-130			
Magnesium	4.94	0.0500	"	5.00		98.9	70-130			
Sodium	4.82	0.0500	"	5.00		96.3	70-130			

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

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

Summit Scientific

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

Batch BHD0212 - General Preparation

Duplicate (BHD0212-DUP1)		Source: 2403477-01			Prepared & Analyzed: 04/08/24			
% Solids	90.7		%		91.7		1.06	20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

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

Summit Scientific

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

Batch BHD0416 - General Preparation

Blank (BHD0416-BLK1)

Prepared: 04/12/24 Analyzed: 04/16/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0416-BS1)

Prepared: 04/12/24 Analyzed: 04/16/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHD0416-DUP1)

Source: 2403462-01

Prepared: 04/12/24 Analyzed: 04/16/24

Specific Conductance (EC) 0.503 0.0100 mmhos/cm 0.519 3.09 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/22/24 11:24

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

Summit Scientific

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

Batch BHD0417 - General Preparation

LCS (BHD0417-BS1)

Prepared: 04/12/24 Analyzed: 04/16/24

pH	9.23		pH Units	9.18		101	95-105		
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Duplicate (BHD0417-DUP1)

Source: 2403462-01

Prepared: 04/12/24 Analyzed: 04/16/24

pH	8.25		pH Units	8.15		1.22	20		
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/22/24 11:24

Notes and Definitions

- S-04 A sample matrix effect prevented complete surrogate recovery.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- 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-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.
- 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

May 28, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Grigsby AC 19-62HN

Work Order #2404199

Enclosed are the results of analyses for samples received by Summit Scientific on 04/11/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN
Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS39 6FT	2404199-01	Soil	04/10/24 00:00	04/11/24 16:30
SS40 6FT	2404199-02	Soil	04/10/24 00:00	04/11/24 16:30
SS41 6FT	2404199-03	Soil	04/10/24 00:00	04/11/24 16:30
SS42 6FT	2404199-04	Soil	04/10/24 00:00	04/11/24 16:30
SS43 6FT	2404199-05	Soil	04/10/24 00:00	04/11/24 16:30
SS44 6FT	2404199-06	Soil	04/11/24 00:00	04/11/24 16:30
SS45 6FT	2404199-07	Soil	04/11/24 00:00	04/11/24 16:30
SS46 6FT	2404199-08	Soil	04/11/24 00:00	04/11/24 16:30
SS47 6FT	2404199-09	Soil	04/11/24 00:00	04/11/24 16:30
SS48 10FT	2404199-10	Soil	04/11/24 00:00	04/11/24 16:30
BKG01 3FT	2404199-11	Soil	04/10/24 00:00	04/11/24 16:30
BKG01 6FT	2404199-12	Soil	04/10/24 00:00	04/11/24 16:30
BKG02 3FT	2404199-13	Soil	04/10/24 00:00	04/11/24 16:30
BKG02 6FT	2404199-14	Soil	04/10/24 00:00	04/11/24 16:30
BKG03 3FT	2404199-15	Soil	04/10/24 00:00	04/11/24 16:30
BKG03 6FT	2404199-16	Soil	04/10/24 00:00	04/11/24 16:30
BKG04 3FT	2404199-17	Soil	04/10/24 00:00	04/11/24 16:30
BKG04 6FT	2404199-18	Soil	04/10/24 00:00	04/11/24 16:30
BKG05 3FT	2404199-19	Soil	04/10/24 00:00	04/11/24 16:30
BKG05 6FT	2404199-20	Soil	04/10/24 00:00	04/11/24 16:30

Summit Scientific

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SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 2
2404199.1	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble/Chemun	
Address: 8305 6th Street	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: <u>Crisby AC19-62 HN</u>	PO/Billing Codes:	
Sampler Name: Aaron Otilar	Project Number: <u>CO24-022</u>	Contact: <u>Don Peterson</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative					Matrix		Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)	SAR, EC, pH, Boron	
1	SS39 6FT	4/10/24		2			X		X	X			X	X	X	X	X		
2	SS40 6FT																		
3	SS41 6FT																		
4	SS42 6FT																		
5	SS43 6FT																		
6	SS44 6FT	4/11/24																	
7	SS45 6FT																		
8	SS46 6FT																		
9	SS47 6FT																		
10	SS48 10FT																		
11	BKG01 3FT	4/10/24		1													X	X	
12	BKG01 6FT																		
13	BKG02 3FT																		
14	BKG02 6FT																		
15	BKG03 3FT																		

Relinquished by: <u>[Signature]</u>	Date/Time: 4/11/24 1620	Received by: <u>Summit North Office</u>	Date/Time: 4/11/24 1620	TAT Business Days	Field DO	Notes:
				Same Day <u>+</u>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>11.7</u>	Corrected Temperature: <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>			

SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2404199.2	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble / Chevron	
Address: 8305 6th Street	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: Grigsby AC19-62 HN	PO/Billing Codes:	
Sampler Name: Aaron Otilar	Project Number: CO24-022	Contact: Don Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)	SAR, EC, pH, Boron		TDS, Cl, SO4
1	BKG03 6FT	4/11/24		1			X			X							X	X		
2	BKG04 3FT																			
3	BKG04 6FT																			
4	BKG05 3FT																			
5	BKG05 6FT																			
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>Aaron Otilar</i>	Date/Time: 4/11/24 1620	Received by: <i>Summit North Office</i>	Date/Time: 4/11/24 1620	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <i>52</i>	Date/Time: 4/11/24 1030	Received by: <i>[Signature]</i>	Date/Time: 4/11/24 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: 11.7	Corrected Temperature: 0	IR gun #:	/	HNO3 lot #:		

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2404199

Client: Fremont Client Project ID: Grigsby Ac 19-02HN

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

-

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

Temp (°C) 11.7

Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<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 7/0E
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 checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	''
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS

Custodian Printed Name

4/11/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS39 6FT
2404199-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0380	04/11/24	04/11/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0406	102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0385	96.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0381	"	04/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.4	83.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS39 6FT
2404199-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0391	04/12/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS39 6FT
2404199-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.15	0.200	mg/kg dry	1	BHD0835	04/23/24	05/10/24	EPA 6020B
Barium	36.1	0.400	"	"	"	"	"	"
Cadmium	0.611	0.200	"	"	"	"	"	"
Copper	26.0	0.400	"	"	"	"	"	"
Lead	22.3	0.200	"	"	"	"	"	"
Nickel	19.6	0.400	"	"	"	"	"	"
Silver	0.0828	0.0200	"	"	"	"	"	"
Zinc	25.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3.15	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	448	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	24.0	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

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

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
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SS39 6FT
2404199-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.4	%	1	BHD0439	04/15/24	04/15/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.187	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.89		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

Summit Scientific

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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS40 6FT
2404199-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0380	04/11/24	04/11/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0434	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0381	"	04/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.3	98.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS40 6FT
2404199-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0391	04/12/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0260	78.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0247	74.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS40 6FT
2404199-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.88	0.181	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	20.7	0.362	"	"	"	"	"	"	
Cadmium	0.288	0.181	"	"	"	"	"	"	
Copper	7.10	0.362	"	"	"	"	"	"	
Lead	9.61	0.181	"	"	"	"	"	"	
Nickel	5.71	0.362	"	"	"	"	"	"	
Silver	0.0417	0.0181	"	"	"	"	"	"	
Zinc	31.7	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3.62	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	5.03	0.0500	"	"	"	"	"	"	
Sodium	343	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	27.4	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

SS40 6FT
2404199-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.7	%	1	BHD0439	04/15/24	04/15/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.38	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.11		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS41 6FT
2404199-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0380	04/11/24	04/11/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	96.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0381	"	04/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

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

PAH by EPA Method 8270D SIM

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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
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SS41 6FT
2404199-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0391	04/12/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0290	87.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0271	81.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS41 6FT
2404199-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.47	0.200	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B
Barium	36.3	0.400	"	"	"	"	"	"
Cadmium	0.472	0.200	"	"	"	"	"	"
Copper	7.65	0.400	"	"	"	"	"	"
Lead	16.2	0.200	"	"	"	"	"	"
Nickel	12.0	0.400	"	"	"	"	"	"
Silver	0.0405	0.0200	"	"	"	"	"	"
Zinc	34.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5.67	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	8.81	0.0500	"	"	"	"	"	"	
Sodium	346	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	21.2	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

SS41 6FT
2404199-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.7	%	1	BHD0439	04/15/24	04/15/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.37	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.10		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS42 6FT
2404199-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0380	04/11/24	04/11/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	96.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0381	"	04/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.3	90.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS42 6FT
2404199-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0391	04/12/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0254	76.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS42 6FT
2404199-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.32	0.200	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B
Barium	12.3	0.400	"	"	"	"	"	"
Cadmium	0.300	0.200	"	"	"	"	"	"
Copper	6.40	0.400	"	"	"	"	"	"
Lead	9.94	0.200	"	"	"	"	"	"
Nickel	6.04	0.400	"	"	"	"	"	"
Silver	0.0304	0.0200	"	"	"	"	"	"
Zinc	32.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3.29	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	5.32	0.0500	"	"	"	"	"	"	
Sodium	299	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	23.7	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

SS42 6FT
2404199-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.4	%	1	BHD0439	04/15/24	04/15/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.16	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.93		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

Summit Scientific

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PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS43 6FT
2404199-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0380	04/11/24	04/11/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0414	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0381	"	04/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.21	57.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS43 6FT
2404199-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0391	04/12/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0259	77.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	65.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS43 6FT
2404199-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.39	0.200	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B
Barium	42.6	0.400	"	"	"	"	"	"
Cadmium	0.439	0.200	"	"	"	"	"	"
Copper	8.98	0.400	"	"	"	"	"	"
Lead	14.2	0.200	"	"	"	"	"	"
Nickel	5.76	0.400	"	"	"	"	"	"
Silver	0.0703	0.0200	"	"	"	"	"	"
Zinc	26.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4.90	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	3.44	0.0500	"	"	"	"	"	"	
Sodium	190	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	16.1	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

SS43 6FT
2404199-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.7	%	1	BHD0439	04/15/24	04/15/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.810	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.13		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS44 6FT
2404199-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0380	04/11/24	04/11/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0434	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0381	"	04/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.1	81.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS44 6FT
2404199-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0391	04/12/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0247	74.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS44 6FT
2404199-06 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.36	0.180	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B
Barium	52.4	0.360	"	"	"	"	"	"
Cadmium	0.437	0.180	"	"	"	"	"	"
Copper	9.97	0.360	"	"	"	"	"	"
Lead	18.3	0.180	"	"	"	"	"	"
Nickel	4.87	0.360	"	"	"	"	"	"
Silver	0.0645	0.0180	"	"	"	"	"	"
Zinc	30.1	0.360	"	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	7.37	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	11.4	0.0500	"	"	"	"	"	"	
Sodium	411	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	22.1	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

SS44 6FT
2404199-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.8	%	1	BHD0439	04/15/24	04/15/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.68	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS45 6FT
2404199-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0380	04/11/24	04/11/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0381	"	04/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.2	97.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS45 6FT
2404199-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0391	04/12/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0263	78.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS45 6FT
2404199-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.77	0.200	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B
Barium	28.9	0.400	"	"	"	"	"	"
Cadmium	0.269	0.200	"	"	"	"	"	"
Copper	7.95	0.400	"	"	"	"	"	"
Lead	13.2	0.200	"	"	"	"	"	"
Nickel	5.15	0.400	"	"	"	"	"	"
Silver	0.0465	0.0200	"	"	"	"	"	"
Zinc	28.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.0	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	6.23	0.0500	"	"	"	"	"	"	
Sodium	59.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.45	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

SS45 6FT
2404199-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.8	%	1	BHD0439	04/15/24	04/15/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.332	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS46 6FT
2404199-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0380	04/11/24	04/11/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0402	100 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0381	"	04/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.9	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 - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS46 6FT
2404199-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0391	04/12/24	04/13/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	57.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS46 6FT
2404199-08 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.29	0.200	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B
Barium	10.4	0.400	"	"	"	"	"	"
Cadmium	0.206	0.200	"	"	"	"	"	"
Copper	5.03	0.400	"	"	"	"	"	"
Lead	6.89	0.200	"	"	"	"	"	"
Nickel	7.11	0.400	"	"	"	"	"	"
Silver	0.0260	0.0200	"	"	"	"	"	"
Zinc	32.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	7.78	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	4.51	0.0500	"	"	"	"	"	"	
Sodium	129	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.11	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

SS46 6FT
2404199-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.6	%	1	BHD0439	04/15/24	04/15/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.571	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS47 6FT
2404199-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0380	04/11/24	04/11/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0458	115 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	96.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0381	"	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.1	88.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS47 6FT
2404199-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0391	04/12/24	04/13/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0206	61.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	57.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS47 6FT
2404199-09 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.59	0.200	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B
Barium	15.7	0.400	"	"	"	"	"	"
Cadmium	0.263	0.200	"	"	"	"	"	"
Copper	7.22	0.400	"	"	"	"	"	"
Lead	11.4	0.200	"	"	"	"	"	"
Nickel	4.14	0.400	"	"	"	"	"	"
Silver	0.0536	0.0200	"	"	"	"	"	"
Zinc	20.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.3	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	8.94	0.0500	"	"	"	"	"	"	
Sodium	132	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.86	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

SS47 6FT
2404199-09 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.4	%	1	BHD0439	04/15/24	04/15/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.664	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS48 10FT
2404199-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0380	04/11/24	04/12/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0447	112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0381	"	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

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

PAH by EPA Method 8270D SIM

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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS48 10FT
2404199-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0391	04/12/24	04/13/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0237	71.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

SS48 10FT
2404199-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.77	0.200	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B
Barium	17.3	0.400	"	"	"	"	"	"
Cadmium	0.247	0.200	"	"	"	"	"	"
Copper	7.05	0.400	"	"	"	"	"	"
Lead	10.5	0.200	"	"	"	"	"	"
Nickel	4.84	0.400	"	"	"	"	"	"
Silver	0.0469	0.0200	"	"	"	"	"	"
Zinc	27.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6.68	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	3.66	0.0500	"	"	"	"	"	"	
Sodium	157	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.1	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

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

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

SS48 10FT
2404199-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.5	%	1	BHD0439	04/15/24	04/15/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.727	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.99		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG01 3FT
2404199-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.51	0.180		mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	51.0	0.360		"	"	"	"	"	"	
Cadmium	0.316	0.180		"	"	"	"	"	"	
Copper	4.28	0.360		"	"	"	"	"	"	
Lead	8.89	0.180		"	"	"	"	"	"	
Nickel	3.94	0.360		"	"	"	"	"	"	
Silver	0.0303	0.0180		"	"	"	"	"	"	
Zinc	20.0	0.360		"	"	"	"	"	"	
Selenium	0.243	0.234		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	16.9	0.0500		mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	4.09	0.0500		"	"	"	"	"	"	
Sodium	19.3	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

BKG01 3FT
2404199-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.09	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BHD0439	04/15/24	04/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.143	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG01 6FT
2404199-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.20	0.180	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	47.3	0.360	"	"	"	"	"	"	
Cadmium	0.280	0.180	"	"	"	"	"	"	
Copper	4.18	0.360	"	"	"	"	"	"	
Lead	8.05	0.180	"	"	"	"	"	"	
Nickel	3.42	0.360	"	"	"	"	"	"	
Silver	0.0254	0.0180	"	"	"	"	"	"	
Zinc	17.7	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	44.2	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	11.0	0.0500	"	"	"	"	"	"	
Sodium	26.3	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

BKG01 6FT
2404199-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.917	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.2		%	1	BHD0439	04/15/24	04/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.161	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG02 3FT
2404199-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	10.5	0.200		mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	85.5	0.400		"	"	"	"	"	"	
Cadmium	0.317	0.200		"	"	"	"	"	"	
Copper	5.91	0.400		"	"	"	"	"	"	
Lead	10.9	0.200		"	"	"	"	"	"	
Nickel	6.98	0.400		"	"	"	"	"	"	
Silver	0.0386	0.0200		"	"	"	"	"	"	
Zinc	20.9	0.400		"	"	"	"	"	"	
Selenium	0.398	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	447	0.0500		mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	266	0.0500		"	"	"	"	"	"	
Sodium	1420	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG02 3FT
2404199-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.1	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.6		%	1	BHD0439	04/15/24	04/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	8.30	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG02 6FT
2404199-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.48	0.200		mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	38.5	0.400		"	"	"	"	"	"	
Cadmium	0.337	0.200		"	"	"	"	"	"	
Copper	5.56	0.400		"	"	"	"	"	"	
Lead	12.0	0.200		"	"	"	"	"	"	
Nickel	4.77	0.400		"	"	"	"	"	"	
Silver	0.0346	0.0200		"	"	"	"	"	"	
Zinc	23.7	0.400		"	"	"	"	"	"	
Selenium	0.364	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	125	0.0500		mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	102	0.0500		"	"	"	"	"	"	
Sodium	914	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG02 6FT
2404199-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	14.7	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.2		%	1	BHD0439	04/15/24	04/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.73	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.70		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG03 3FT
2404199-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.28	0.200		mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	45.4	0.400		"	"	"	"	"	"	
Cadmium	0.240	0.200		"	"	"	"	"	"	
Copper	4.17	0.400		"	"	"	"	"	"	
Lead	8.08	0.200		"	"	"	"	"	"	
Nickel	3.32	0.400		"	"	"	"	"	"	
Silver	0.0237	0.0200		"	"	"	"	"	"	
Zinc	15.5	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	77.9	0.0500		mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	19.3	0.0500		"	"	"	"	"	"	
Sodium	11.6	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

BKG03 3FT
2404199-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.305	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.0		%	1	BHD0439	04/15/24	04/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.256	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG03 6FT
2404199-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.03	0.200	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	148	0.400	"	"	"	"	"	"	
Cadmium	0.369	0.200	"	"	"	"	"	"	
Copper	5.90	0.400	"	"	"	"	"	"	
Lead	10.6	0.200	"	"	"	"	"	"	
Nickel	6.88	0.400	"	"	"	"	"	"	
Silver	0.0518	0.0200	"	"	"	"	"	"	
Zinc	24.9	0.400	"	"	"	"	"	"	
Selenium	0.417	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	77.2	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	16.1	0.0500	"	"	"	"	"	"	
Sodium	76.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG03 6FT
2404199-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.06	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BHD0439	04/15/24	04/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.726	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG04 3FT
2404199-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.78	0.200		mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	76.6	0.400		"	"	"	"	"	"	
Cadmium	0.269	0.200		"	"	"	"	"	"	
Copper	4.23	0.400		"	"	"	"	"	"	
Lead	7.92	0.200		"	"	"	"	"	"	
Nickel	3.87	0.400		"	"	"	"	"	"	
Silver	0.0263	0.0200		"	"	"	"	"	"	
Zinc	19.2	0.400		"	"	"	"	"	"	
Selenium	0.374	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	43.2	0.0500		mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	12.3	0.0500		"	"	"	"	"	"	
Sodium	174	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG04 3FT
2404199-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.01	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BHD0439	04/15/24	04/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.06	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG04 6FT
2404199-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	7.61	0.181		mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	95.4	0.362		"	"	"	"	"	"	
Cadmium	0.323	0.181		"	"	"	"	"	"	
Copper	4.48	0.362		"	"	"	"	"	"	
Lead	8.42	0.181		"	"	"	"	"	"	
Nickel	4.85	0.362		"	"	"	"	"	"	
Silver	0.0278	0.0181		"	"	"	"	"	"	
Zinc	21.0	0.362		"	"	"	"	"	"	
Selenium	0.239	0.236		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	80.0	0.0500		mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	20.0	0.0500		"	"	"	"	"	"	
Sodium	145	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

BKG04 6FT
2404199-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.76	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BHD0439	04/15/24	04/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.25	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.66		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG05 3FT
2404199-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.58	0.200	mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	61.5	0.400	"	"	"	"	"	"	
Cadmium	0.228	0.200	"	"	"	"	"	"	
Copper	3.87	0.400	"	"	"	"	"	"	
Lead	7.35	0.200	"	"	"	"	"	"	
Nickel	3.55	0.400	"	"	"	"	"	"	
Silver	0.0247	0.0200	"	"	"	"	"	"	
Zinc	16.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	378	0.0500	mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	93.6	0.0500	"	"	"	"	"	"	
Sodium	537	0.0500	"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

BKG05 3FT
2404199-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.41	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.8		%	1	BHD0439	04/15/24	04/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.32	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

BKG05 6FT
2404199-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0494	04/16/24	05/22/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.20	0.200		mg/kg dry	1	BHD0835	04/23/24	04/27/24	EPA 6020B	
Barium	92.6	0.400		"	"	"	"	"	"	
Cadmium	0.243	0.200		"	"	"	"	"	"	
Copper	4.32	0.400		"	"	"	"	"	"	
Lead	7.60	0.200		"	"	"	"	"	"	
Nickel	4.17	0.400		"	"	"	"	"	"	
Silver	0.0281	0.0200		"	"	"	"	"	"	
Zinc	19.9	0.400		"	"	"	"	"	"	
Selenium	0.293	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0564	04/17/24	04/18/24	EPA 7196A	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	65.6	0.0500		mg/L dry	1	BHD0720	04/22/24	05/24/24	EPA 6020B	
Magnesium	15.2	0.0500		"	"	"	"	"	"	
Sodium	140	0.0500		"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

BKG05 6FT
2404199-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.05	0.00100	units	1	BHE0798	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	BHD0439	04/15/24	04/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.13	0.0100	mmhos/cm	1	BHD0760	04/22/24	04/23/24	EPA 120.1	

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

Date Sampled: **04/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79		pH Units	1	BHD0761	04/22/24	04/23/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

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 BHD0380 - EPA 5030 Soil MS

Blank (BHD0380-BLK1)

Prepared: 04/11/24 Analyzed: 04/12/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

LCS (BHD0380-BS1)

Prepared: 04/11/24 Analyzed: 04/12/24

Benzene	0.109	0.0020	mg/kg	0.100		109	70-130			
Toluene	0.103	0.0050	"	0.100		103	70-130			
Ethylbenzene	0.115	0.0050	"	0.100		115	70-130			
m,p-Xylene	0.225	0.010	"	0.200		113	70-130			
o-Xylene	0.107	0.0050	"	0.100		107	70-130			
1,2,4-Trimethylbenzene	0.0997	0.0050	"	0.100		99.7	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
Naphthalene	0.0918	0.0038	"	0.100		91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.8	50-150			

Matrix Spike (BHD0380-MS1)

Source: 2404199-01

Prepared: 04/11/24 Analyzed: 04/12/24

Benzene	0.0881	0.0020	mg/kg	0.100	ND	88.1	70-130			
Toluene	0.0840	0.0050	"	0.100	ND	84.0	70-130			
Ethylbenzene	0.0916	0.0050	"	0.100	ND	91.6	70-130			
m,p-Xylene	0.181	0.010	"	0.200	ND	90.4	70-130			
o-Xylene	0.0844	0.0050	"	0.100	ND	84.4	70-130			
1,2,4-Trimethylbenzene	0.0809	0.0050	"	0.100	ND	80.9	70-130			
1,3,5-Trimethylbenzene	0.0829	0.0050	"	0.100	ND	82.9	70-130			
Naphthalene	0.0794	0.0038	"	0.100	ND	79.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0441		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	50-150			

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHD0380 - EPA 5030 Soil MS

Matrix Spike Dup (BHD0380-MSD1)	Source: 2404199-01			Prepared: 04/11/24 Analyzed: 04/12/24						
Benzene	0.0782	0.0020	mg/kg	0.100	ND	78.2	70-130	11.8	30	
Toluene	0.0742	0.0050	"	0.100	ND	74.2	70-130	12.4	30	
Ethylbenzene	0.0811	0.0050	"	0.100	ND	81.1	70-130	12.2	30	
m,p-Xylene	0.160	0.010	"	0.200	ND	80.0	70-130	12.2	30	
o-Xylene	0.0758	0.0050	"	0.100	ND	75.8	70-130	10.8	30	
1,2,4-Trimethylbenzene	0.0697	0.0050	"	0.100	ND	69.7	70-130	14.9	30	QM-07
1,3,5-Trimethylbenzene	0.0717	0.0050	"	0.100	ND	71.7	70-130	14.5	30	
Naphthalene	0.0677	0.0038	"	0.100	ND	67.7	70-130	15.9	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0453		"	0.0400		113	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHD0381 - EPA 3550A

Blank (BHD0381-BLK1)

Prepared: 04/11/24 Analyzed: 04/12/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	18.0		"	12.5		144	30-150				

LCS (BHD0381-BS1)

Prepared: 04/11/24 Analyzed: 04/12/24

C10-C28 (DRO)	453	50	mg/kg	500		90.5	70-130				
Surrogate: <i>o</i> -Terphenyl	14.2		"	12.5		113	30-150				

Matrix Spike (BHD0381-MS1)

Source: 2404199-01

Prepared: 04/11/24 Analyzed: 04/12/24

C10-C28 (DRO)	625	50	mg/kg	500	22.2	121	70-130				
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5		108	30-150				

Matrix Spike Dup (BHD0381-MSD1)

Source: 2404199-01

Prepared: 04/11/24 Analyzed: 04/12/24

C10-C28 (DRO)	538	50	mg/kg	500	22.2	103	70-130	15.0	20		
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5		89.2	30-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0391 - EPA 5030 Soil MS

Blank (BHD0391-BLK1)

Prepared & Analyzed: 04/12/24

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0341</i>		<i>"</i>	<i>0.0333</i>	<i>102</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0332</i>		<i>"</i>	<i>0.0333</i>	<i>99.6</i>	<i>40-150</i>					

LCS (BHD0391-BS1)

Prepared & Analyzed: 04/12/24

Acenaphthene	0.0347	0.00500	mg/kg	0.0333	104	31-137					
Anthracene	0.0380	0.00500	"	0.0333	114	30-120					
Benzo (a) anthracene	0.0260	0.00500	"	0.0333	77.9	30-120					
Benzo (a) pyrene	0.0219	0.00500	"	0.0333	65.8	30-120					
Benzo (b) fluoranthene	0.0235	0.00500	"	0.0333	70.5	30-120					
Benzo (k) fluoranthene	0.0266	0.00500	"	0.0333	79.7	30-120					
Chrysene	0.0344	0.00500	"	0.0333	103	30-120					
Dibenz (a,h) anthracene	0.0301	0.00500	"	0.0333	90.2	30-120					
Fluoranthene	0.0344	0.00500	"	0.0333	103	30-120					
Fluorene	0.0270	0.00500	"	0.0333	80.9	30-120					
Indeno (1,2,3-cd) pyrene	0.0333	0.00500	"	0.0333	100	30-120					
Pyrene	0.0411	0.00500	"	0.0333	123	35-142					
1-Methylnaphthalene	0.0365	0.00500	"	0.0333	109	35-142					
2-Methylnaphthalene	0.0348	0.00500	"	0.0333	104	35-142					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0362</i>		<i>"</i>	<i>0.0333</i>	<i>108</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0330</i>		<i>"</i>	<i>0.0333</i>	<i>98.9</i>	<i>40-150</i>					

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0391 - EPA 5030 Soil MS

Matrix Spike (BHD0391-MS1)	Source: 2404166-01			Prepared & Analyzed: 04/12/24							
Acenaphthene	0.0181	0.00500	mg/kg	0.0333	ND	54.4	31-137				
Anthracene	0.0167	0.00500	"	0.0333	ND	50.0	30-120				
Benzo (a) anthracene	0.0142	0.00500	"	0.0333	ND	42.6	30-120				
Benzo (a) pyrene	0.0143	0.00500	"	0.0333	ND	43.0	30-120				
Benzo (b) fluoranthene	0.0150	0.00500	"	0.0333	ND	44.9	30-120				
Benzo (k) fluoranthene	0.0185	0.00500	"	0.0333	ND	55.6	30-120				
Chrysene	0.0186	0.00500	"	0.0333	ND	55.8	30-120				
Dibenz (a,h) anthracene	0.0135	0.00500	"	0.0333	ND	40.4	30-120				
Fluoranthene	0.0163	0.00500	"	0.0333	ND	48.9	30-120				
Fluorene	0.0159	0.00500	"	0.0333	ND	47.8	30-120				
Indeno (1,2,3-cd) pyrene	0.0203	0.00500	"	0.0333	ND	61.0	30-120				
Pyrene	0.0197	0.00500	"	0.0333	ND	59.0	35-142				
1-Methylnaphthalene	0.0179	0.00500	"	0.0333	ND	53.6	15-130				
2-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.7	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0195</i>		<i>"</i>	<i>0.0333</i>		<i>58.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0165</i>		<i>"</i>	<i>0.0333</i>		<i>49.4</i>	<i>40-150</i>				

Matrix Spike Dup (BHD0391-MSD1)	Source: 2404166-01			Prepared & Analyzed: 04/12/24						
Acenaphthene	0.0273	0.00500	mg/kg	0.0333	ND	81.9	31-137	40.4	30	QR-02
Anthracene	0.0272	0.00500	"	0.0333	ND	81.5	30-120	47.9	30	QR-02
Benzo (a) anthracene	0.0253	0.00500	"	0.0333	ND	76.0	30-120	56.2	30	QR-02
Benzo (a) pyrene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	37.8	30	QR-02
Benzo (b) fluoranthene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	35.1	30	QR-02
Benzo (k) fluoranthene	0.0254	0.00500	"	0.0333	ND	76.2	30-120	31.2	30	QR-02
Chrysene	0.0305	0.00500	"	0.0333	ND	91.5	30-120	48.5	30	QR-02
Dibenz (a,h) anthracene	0.0225	0.00500	"	0.0333	ND	67.4	30-120	50.0	30	QR-02
Fluoranthene	0.0334	0.00500	"	0.0333	ND	100	30-120	68.8	30	QR-02
Fluorene	0.0231	0.00500	"	0.0333	ND	69.2	30-120	36.5	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0303	0.00500	"	0.0333	ND	91.0	30-120	39.4	30	QR-02
Pyrene	0.0387	0.00500	"	0.0333	ND	116	35-142	65.3	30	QR-02
1-Methylnaphthalene	0.0264	0.00500	"	0.0333	ND	79.3	15-130	38.6	50	
2-Methylnaphthalene	0.0281	0.00500	"	0.0333	ND	84.3	15-130	57.4	50	QR-02
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0278</i>		<i>"</i>	<i>0.0333</i>		<i>83.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0264</i>		<i>"</i>	<i>0.0333</i>		<i>79.2</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

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

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

Batch BHD0494 - EPA 3050B

Blank (BHD0494-BLK1)

Prepared: 04/16/24 Analyzed: 05/22/24

Boron ND 2.00 mg/L

LCS (BHD0494-BS1)

Prepared: 04/16/24 Analyzed: 05/22/24

Boron 5.95 2.00 mg/L 5.00 119 80-120

Duplicate (BHD0494-DUP1)

Source: 2404199-01

Prepared: 04/16/24 Analyzed: 05/22/24

Boron 0.914 2.00 mg/L 0.922 0.937 20

Matrix Spike (BHD0494-MS1)

Source: 2404199-01

Prepared: 04/16/24 Analyzed: 05/22/24

Boron 6.87 2.00 mg/L 5.02 0.922 119 75-125

Matrix Spike Dup (BHD0494-MSD1)

Source: 2404199-01

Prepared: 04/16/24 Analyzed: 05/22/24

Boron 7.04 2.00 mg/L 5.02 0.922 122 75-125 2.43 25

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PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0835 - EPA 3050B

Blank (BHD0835-BLK1)

Prepared: 04/23/24 Analyzed: 04/27/24

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

LCS (BHD0835-BS1)

Prepared: 04/23/24 Analyzed: 04/27/24

Arsenic	38.0	0.200	mg/kg wet	40.0	95.1	80-120
Barium	39.0	0.400	"	40.0	97.5	80-120
Cadmium	1.88	0.200	"	2.00	94.0	80-120
Copper	41.5	0.400	"	40.0	104	80-120
Lead	19.0	0.200	"	20.0	95.0	80-120
Nickel	40.9	0.400	"	40.0	102	80-120
Silver	1.91	0.0200	"	2.00	95.5	80-120
Zinc	40.5	0.400	"	40.0	101	80-120
Selenium	3.79	0.260	"	4.00	94.7	80-120

Duplicate (BHD0835-DUP1)

Source: 2404199-01

Prepared: 04/23/24 Analyzed: 05/10/24

Arsenic	3.90	0.180	mg/kg dry	5.15	27.7	20	QR-04
Barium	32.8	0.360	"	36.1	9.73	20	
Cadmium	0.481	0.180	"	0.611	23.9	20	QR-01
Copper	24.0	0.360	"	26.0	7.79	20	
Lead	17.7	0.180	"	22.3	22.6	20	QR-04
Nickel	12.7	0.360	"	19.6	43.0	20	QR-04
Silver	0.0792	0.0180	"	0.0828	4.41	20	
Zinc	26.2	0.360	"	25.9	1.33	20	
Selenium	ND	0.234	"	0.161		20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0835 - EPA 3050B

Matrix Spike (BHD0835-MS1)

Source: 2404199-01

Prepared: 04/23/24 Analyzed: 05/10/24

Arsenic	49.5	0.200	mg/kg dry	45.4	5.15	97.6	75-125			
Barium	76.6	0.400	"	45.4	36.1	89.1	75-125			
Cadmium	2.87	0.200	"	2.27	0.611	99.3	75-125			
Copper	69.7	0.400	"	45.4	26.0	96.4	75-125			
Lead	35.5	0.200	"	22.7	22.3	58.2	75-125			QM-07
Nickel	63.2	0.400	"	45.4	19.6	95.8	75-125			
Silver	2.38	0.0200	"	2.27	0.0828	101	75-125			
Zinc	39.7	0.400	"	45.4	25.9	30.4	75-125			QM-07
Selenium	3.78	0.260	"	4.54	ND	83.3	75-125			

Matrix Spike Dup (BHD0835-MSD1)

Source: 2404199-01

Prepared: 04/23/24 Analyzed: 05/10/24

Arsenic	53.6	0.200	mg/kg dry	45.4	5.15	107	75-125	8.05	25	
Barium	83.2	0.400	"	45.4	36.1	104	75-125	8.28	25	
Cadmium	3.14	0.200	"	2.27	0.611	111	75-125	9.01	25	
Copper	76.0	0.400	"	45.4	26.0	110	75-125	8.55	25	
Lead	38.4	0.200	"	22.7	22.3	70.9	75-125	7.81	25	QM-07
Nickel	68.7	0.400	"	45.4	19.6	108	75-125	8.41	25	
Silver	2.54	0.0200	"	2.27	0.0828	108	75-125	6.66	25	
Zinc	42.1	0.400	"	45.4	25.9	35.7	75-125	5.90	25	QM-07
Selenium	3.91	0.260	"	4.54	ND	86.2	75-125	3.36	25	

Post Spike (BHD0835-PS1)

Source: 2404199-01

Prepared: 04/23/24 Analyzed: 04/27/24

Arsenic	112		ug/l	100	10.3	102	75-125			
Barium	140		"	100	72.6	67.0	75-125			QM-07
Cadmium	6.63		"	5.00	1.23	108	75-125			
Copper	66.5		"	100	52.2	14.3	75-125			QM-07
Lead	81.7		"	50.0	44.7	74.0	75-125			QM-07
Nickel	65.8		"	100	39.5	26.3	75-125			QM-07
Silver	5.29		"	5.00	0.166	103	75-125			
Zinc	115		"	100	52.0	62.6	75-125			QM-07
Selenium	8.87		"	10.0	0.324	85.4	75-125			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHD0564 - 3060A Mod

Blank (BHD0564-BLK1)

Prepared: 04/17/24 Analyzed: 04/18/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0564-BS1)

Prepared: 04/17/24 Analyzed: 04/18/24

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

Duplicate (BHD0564-DUP1)

Source: 2404199-01

Prepared: 04/17/24 Analyzed: 04/18/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0564-MS1)

Source: 2404199-01

Prepared: 04/17/24 Analyzed: 04/18/24

Chromium, Hexavalent 28.8 0.30 mg/kg dry 31.1 ND 92.6 75-125

Matrix Spike Dup (BHD0564-MSD1)

Source: 2404199-01

Prepared: 04/17/24 Analyzed: 04/18/24

Chromium, Hexavalent 29.6 0.30 mg/kg dry 31.1 ND 95.0 75-125 2.56 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

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

Summit Scientific

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

Batch BHD0720 - General Preparation

Blank (BHD0720-BLK1)

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

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

LCS (BHD0720-BS1)

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

Calcium	5.69	0.0500	mg/L wet	5.00		114	70-130			
Magnesium	5.20	0.0500	"	5.00		104	70-130			
Sodium	5.18	0.0500	"	5.00		104	70-130			

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

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

Summit Scientific

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

Batch BHD0439 - General Preparation

Duplicate (BHD0439-DUP1)		Source: 2404129-01			Prepared & Analyzed: 04/15/24			
% Solids	76.0		%		76.1		0.175	20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

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

Summit Scientific

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

Batch BHD0760 - General Preparation

Blank (BHD0760-BLK1)

Prepared: 04/22/24 Analyzed: 04/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0760-BS1)

Prepared: 04/22/24 Analyzed: 04/23/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHD0760-DUP1)

Source: 2404101-01

Prepared: 04/22/24 Analyzed: 04/23/24

Specific Conductance (EC) 0.116 0.0100 mmhos/cm 0.117 0.858 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
 Project Manager: Paul Henchan

Reported:
 05/28/24 09:45

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

Summit Scientific

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

Batch BHD0761 - General Preparation

LCS (BHD0761-BS1)

Prepared: 04/22/24 Analyzed: 04/23/24

pH	9.11	pH Units	9.18	99.2	95-105
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Duplicate (BHD0761-DUP1)

Source: 2404101-01

Prepared: 04/22/24 Analyzed: 04/23/24

pH	8.57	pH Units	8.56	0.117	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: CO24-022
Project Manager: Paul Henchan

Reported:
05/28/24 09:45

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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