

FREMONT ENVIRONMENTAL INC.

July 9, 2024

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

Subject: **Excavation Report**
Clyncke State B36-25, Baker State B36-12
SESE Sec 16, T5N, R64W
Weld County, Colorado
Fremont Project No. C022-187
Facility #447562, Remediation #20768

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Excavation Report for the Clyncke State B36-25, Baker State B36-12 tank battery location in Weld County, Colorado. The enclosed report describes excavation and sampling efforts to remediate impacted soil at the site.

Please contact me at (303) 261-6246 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.

A handwritten signature in black ink, appearing to read 'Stanley Gilbert', written in a cursive style.

Stanley Gilbert
Environmental Scientist

Enclosure

EXCAVATION REPORT

NOBLE ENERGY INC.

CLYNCKE STATE B36-25, BAKER STATE B36-12

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-187

FACILITY # 447562, REMEDIATION # 20768

Prepared by:

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June 5, 2024

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EXCAVATION REPORT
NOBLE ENERGY INC.
CLYNCKE STATE B36-25, BAKER STATE B36-12
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-187
FACILITY # 447562, REMEDIATION # 20768

1.0 INTRODUCTION

The purpose of this document is to present information collected during the multi-day excavation of soil at the Clyncke State B36-25, Baker State B36-12 (Clyncke) former tank battery and wellhead locations in Weld County, Colorado. This excavation project was completed on November 8, 2023.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Clyncke facility is located approximately 4.33 miles southeast of Kersey, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.29 miles east of the intersection of County Road 50 and County Road 59. The location is further described as the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 36, Township 5N, Range 64W.

2.2 Site History

The site consists of the Clyncke tank battery which serviced the Clyncke State B36-25 natural gas well. The Clyncke State B36-25 well was drilled in 2007 to a depth of 6,935 feet.

A historical release was discovered within the produced water vault (PWV) and separator excavations during decommissioning activities at the Clyncke facility in November 23, 2022. A site investigation was undertaken on June 14, 2023 to define the

magnitude and extent of soil impacts which were subsequently removed via excavation. Groundwater was encountered during the initial site investigation.

3.0 FIELD ACTIVITIES

3.1 Soil Excavation and Sampling

Soil remediation efforts consisted of the excavation and removed of petroleum impacted soil at and adjacent to the Former Clyncke PWV and separator. The subsurface generally consisted of six inches of road base underlain by 5.5 feet of sandy clay to eight feet below ground surface. The sandy clay is underlain by wet Silty clays extending to a depth of 10 feet (bgs) within the excavation. Groundwater was encountered at 10 feet within the excavation.

The multi-day excavation was completed at the Clyncke location on November 8, 2023. Soil samples were collected from the excavation as grab samples from the excavation sidewalls at nine feet bgs and from the excavation floor at ten feet bgs.

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.

A summary of the laboratory data for the soil samples is included in Tables 1 through 4. The laboratory analyses indicate that organic petroleum constituents in soil samples collected from the sidewalls and floor of the excavation achieved the Colorado Energy & Carbon Management Commission's (ECMC) Table 915-1 protection of groundwater soil screening levels (PGSSLs). However, arsenic exceeded the ECMC Table 915-1 residential soil screening levels (RSSLs). Metals barium, lead and selenium exceeded the ECMC Table 915-1 PGSSLs for samples collected in the excavation at nine feet and 10 feet bgs and cannot be attributed to native soil conditions based on the background soil data.

Groundwater flowed into the bottom of the excavation at approximately ten feet. Eight groundwater grab samples were collected from the floor of the excavation (GW01 through GW08). Samples GW01-GW08 were submitted to Summit Scientific, Inc. for the analyses of organic petroleum constituents BTEX, 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene and naphthalene by EPA Method 8260B. Seven of the eight groundwater samples collected comply with the ECMC Table 915-1 standards. The groundwater chemistry is shown on Figure 6 and the analytical data are summarized in Tables 5. The laboratory's report and chain-of-custody documentation are presented in Appendix B.

The laboratory analyses indicate that petroleum constituents in soil samples collected from the excavation achieved the ECMC Table 915-1 Protection of Groundwater Standards (PGSSLs) for petroleum constituents. Approximately 1900 cubic yards of impacted soil were removed via backhoe by Tasman Geoscience Inc. during the excavation. The impacted soil was disposed of at the Waste Management Landfill in Keenesburg, Colorado North Weld County Landfill in Ault, Colorado. As non-hazardous waste. Approximately 1,100 gallons of water were removed via pump truck during

excavation and transported to NGL C6 disposal in Platteville, Colorado as non-hazardous waste. The excavation was backfilled using clean, imported fill.

4.0 DISCUSSION

As demonstrated by the soil sampling, impacted soil was removed from the release area at the Clyncke 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.

Approximately 1900 cubic yards of impacted soil were removed and transported to the landfill. The soil data are illustrated and summarized in the attached tables and figures.

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

Samples not attributable to native soil conditions based on the background data that exceed the ECMC Table 915-1 RSSLs for arsenic will be recollected in the excavation sidewalls at nine feet (N03, N05, S01 and E02) and 10 feet bgs (B06).

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

Clyncke State B36-25, Baker State B36-12

Weld County, Colorado

Fremont No. C022-187

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



7/9/24

Date _____

Stanley Gilbert

Environmental Scientist

Reviewed by:



7/9/24

Date _____

Ethan D. Black, P.G.

Geologist

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
CLYNCKE STATE B 36-25, BAKER STATE B 36-12, WELD COUNTY, COLORADO
REM # 20768

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
AST01@6"	11/23/2022	6"	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST02@6"	11/23/2022	6"	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
DL01@7'	11/23/2022	7'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	140	<50
DL02@4.5'	11/23/2022	4.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWVB01@6.5'	11/23/2022	6.5'	0.19	0.056	0.18	19	12	6.1	0.03	<500	54	160	<50
PWVE01@5'	11/23/2022	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWVN01@5'	11/23/2022	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWVS01@5'	11/23/2022	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.023	698	<50	570	79
PWVW01@5'	11/23/2022	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB- AST E 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.04	<500	60	120	<50
SB- AST E2 9ft	06/14/2023	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.069	<500	14	<50	<50
SB- AST E3 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB- AST N	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB- AST S 12ft	06/14/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.012	<500	26	<50	<50
SB- AST S 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.17	1134	54	860	220
SB- AST S2 12ft	06/14/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB- AST S2 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB- AST W 10ft	06/14/2023	10	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	0.5	<50	<50
SB- AST W 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.14	<500	4.4	<50	<50
SB-SEP. CEN 12ft	06/14/2023	12	<0.0020	<0.0050	0.0078	<0.010	<0.0050	<0.0050	0.024	881	240	590	51
SB-SEP. CEN 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.029	1225	43	1100	82
SB-SEP. E 12ft	06/14/2023	12	<0.0020	<0.0050	<0.0050	<0.010	6.9	0.024	0.077	705.9	5.9	560	140
SB-SEP. E 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.16	<500	27	300	89
SB-SEP. E2 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.4	504	24	370	110
SB-SEP. E2 9ft	06/14/2023	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.51	594	34	430	130
SB-SEP. N 11ft	06/14/2023	11	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.067	970	470	320	180
SB-SEP. N 6ft	06/14/2023	6	<0.0020	<0.0050	<0.0050	<0.010	0.82	<0.0050	0.39	3152	72	2400	680
SB-SEP. N2 11ft	06/14/2023	11	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.25	<500	4	360	110
SB-SEP. N2 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.2	<500	26	280	88
SB-SEP. N3 12ft	06/14/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-SEP. N3 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-SEP. S 10ft	06/14/2023	10	<0.0020	<0.0050	<0.0050	<0.010	0.032	<0.0050	0.11	518	28	490	<50
SB-SEP. S 7ft	06/14/2023	7	<0.0020	<0.0050	<0.0050	<0.010	0.32	<0.0050	0.0066	<500	20	300	<50
SB-SEP. S2 11ft	06/14/2023	11	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.0041	<500	<0.50	330	<50
SB-SEP. S2 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-SEP. W 11ft	06/14/2023	11	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.011	<500	19	120	<50
SB-SEP. W 8ft	06/14/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	0.86	<50	<50
B01@12'	10/20/2023	12'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<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 (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
S01@9'	10/20/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
W01@9'	10/20/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B02@10'	10/23/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
N01@9'	10/23/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
W02@9'	10/23/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B03@10'	10/24/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
N02@9'	10/24/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B04@10'	10/25/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	23	<50	<50
B05@10'	10/25/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
S02@9'	10/25/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B06@10'	10/26/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
N03@9'	10/26/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B08@10'	10/30/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
S03@9'	10/30/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B07@10'	10/31/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B09@10'	11/01/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
E01@9'	11/01/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
N04@9'	11/01/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B10@10'	11/02/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.0088	<500	0.54	<50	<50
B11@10'	11/02/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	1.4	<50	<50
S04@9'	11/02/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B10@10.5'	11/03/2023	10.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B12@10'	11/06/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
N05@9'	11/06/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B12@10'	11/08/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
B13@10'	11/08/2023	10'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
E02@9'	11/08/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
S05@9'	11/08/2023	9'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

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

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

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

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

NA - Not analyzed

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

 = Material excavated and transported off site for disposal.

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
S01@9'	10/20/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
W01@9'	10/20/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B02@10'	10/23/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
N01@9'	10/23/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
W02@9'	10/23/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B03@10'	10/24/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
N02@9'	10/24/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B04@10'	10/25/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0221	<0.00500	<0.00500	<0.00500	<0.00500
B05@10'	10/25/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0051	0.0116
S02@9'	10/25/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B06@10'	10/26/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
N03@9'	10/26/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B08@10'	10/30/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
S03@9'	10/30/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B07@10'	10/31/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B09@10'	11/01/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
E01@9'	11/01/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
N04@9'	11/01/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B10@10'	11/02/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0132
B11@10'	11/02/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0189
S04@9'	11/02/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B10@10.5'	11/03/2023	10.5'	<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
B12@10'	11/06/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
N05@9'	11/06/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B12@10'	11/08/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B13@10'	11/08/2023	10'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
E02@9'	11/08/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
S05@9'	11/08/2023	9'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

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

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

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

NA - Not analyzed

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

 = Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
CLYNCKE STATE B 36-25, BAKER STATE B 36-12, WELD COUNTY, COLORADO
REM # 20768

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
AST01@6"	11/23/2022	6"	8.12	0.247	0.496	0.115
AST02@6"	11/23/2022	6"	8.33	0.403	3.16	0.202
DL01@7'	11/23/2022	7'	7.5	0.572	0.585	<0.0100
DL02@4.5'	11/23/2022	4.5'	7.99	0.346	0.65	0.0659
PWVB01@6.5'	11/23/2022	6.5'	8.34	0.396	2.53	0.259
PWVE01@5'	11/23/2022	5'	7.91	0.234	0.283	0.0267
PWVN01@5'	11/23/2022	5'	8.07	0.335	0.882	0.0225
PWVS01@5'	11/23/2022	5'	8.38	0.333	0.505	<0.0100
PWVW01@5'	11/23/2022	5'	7.95	0.262	0.437	0.0458
SB- AST E 8ft	06/14/2023	8	7.97	0.294	1.03	0.286
SB- AST E2 9ft	06/14/2023	9	8.59	0.278	0.701	0.384
SB- AST E3 8ft	06/14/2023	8	7.78	0.302	0.485	0.265
SB- AST N	06/14/2023	8	7.77	0.291	0.472	0.118
SB- AST S 12ft	06/14/2023	12	8.71	0.335	0.746	0.392
SB- AST S 7ft	06/14/2023	7	8.06	0.481	0.527	0.197
SB- AST S2 12ft	06/14/2023	12	8.66	0.258	0.905	0.332
SB- AST S2 8ft	06/14/2023	8	8.27	0.389	1.32	0.296
SB- AST W 10ft	06/14/2023	10	8.88	0.463	1.49	0.442
SB- AST W 8ft	06/14/2023	8	8.11	0.299	0.789	0.304
SB-SEP. CEN 12ft	06/14/2023	12	7.55	0.964	1.72	0.14
SB-SEP. CEN 7ft	06/14/2023	7	7.47	0.532	2.44	0.136
SB-SEP. E 12ft	06/14/2023	12	7.86	0.819	1.48	0.0565

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
SB-SEP. E 7ft	06/14/2023	7	7.97	0.33	0.408	0.0954
SB-SEP. E2 7ft	06/14/2023	7	8.45	0.336	0.892	0.166
SB-SEP. E2 9ft	06/14/2023	9	8.49	0.289	0.865	0.402
SB-SEP. N 11ft	06/14/2023	11	8.21	0.545	2.26	0.0859
SB-SEP. N 6ft	06/14/2023	6	7.66	0.362	0.977	0.109
SB-SEP. N2 11ft	06/14/2023	11	7.98	0.816	2.69	0.115
SB-SEP. N2 7ft	06/14/2023	7	8.52	0.49	2.74	0.151
SB-SEP. N3 12ft	06/14/2023	12	7.51	0.572	2.15	0.059
SB-SEP. N3 8ft	06/14/2023	8	8.02	0.388	2.07	0.158
SB-SEP. S 10ft	06/14/2023	10	8.55	0.344	1.64	0.114
SB-SEP. S 7ft	06/14/2023	7	7.79	0.499	1.89	0.167
SB-SEP. S2 11ft	06/14/2023	11	7.61	0.728	0.849	0.0492
SB-SEP. S2 8ft	06/14/2023	8	7.79	0.311	0.448	0.223
SB-SEP. W 11ft	06/14/2023	11	8.11	0.403	1.81	0.108
SB-SEP. W 8ft	06/14/2023	8	7.77	0.464	1.72	0.153
B01@12'	10/20/2023	12'	8.13	0.995	4.4	<2.00
S01@9'	10/20/2023	9'	8.02	0.41	1.01	<2.00
W01@9'	10/20/2023	9'	8.09	0.553	2.54	<2.00
B02@10'	10/23/2023	10'	7.75	0.219	1.34	<2.00
N01@9'	10/23/2023	9'	8.45	0.159	1.04	<2.00
W02@9'	10/23/2023	9'	8.46	0.17	1.04	<2.00
B03@10'	10/24/2023	10'	7.91	0.634	2.16	<2.00
N02@9'	10/24/2023	9'	8.08	0.424	3.02	<2.00
B04@10'	10/25/2023	10'	8.18	0.443	1.12	<2.00
B05@10'	10/25/2023	10'	7.92	0.418	1.69	<2.00
S02@9'	10/25/2023	9'	8.03	0.35	1.65	<2.00
B06@10'	10/26/2023	10'	9.26	0.29	1.18	<2.00
N03@9'	10/26/2023	9'	7.73	0.605	3.07	<2.00
B08@10'	10/30/2023	10'	7.68	0.656	2.12	<2.00
S03@9'	10/30/2023	9'	7.61	0.396	2.37	<2.00
B07@10'	10/31/2023	10'	8.33	0.351	1.22	<2.00
B09@10'	11/01/2023	10'	8.54	0.466	1.58	<2.00

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
E01@9'	11/01/2023	9'	7.85	0.463	2.51	<2.00
N04@9'	11/01/2023	9'	7.83	1.02	4.49	<2.00
B10@10'	11/02/2023	10'	9.47	0.206	1.54	<2.00
B11@10'	11/02/2023	10'	9.14	0.178	0.678	<2.00
S04@9'	11/02/2023	9'	8.57	0.285	1.49	<2.00
B10@10.5'	11/03/2023	10.5'	8.19	0.366	2.17	<2.00
B12@10'	11/06/2023	10'	9.28	0.178	0.375	<2.00
N05@9'	11/06/2023	9'	8.74	0.272	1.22	<2.00
B12@10'	11/08/2023	10'	7.93	0.397	1.59	<2.00
B13@10'	11/08/2023	10'	7.9	0.454	1.66	<2.00
E02@9'	11/08/2023	9'	8.08	0.252	0.864	<2.00
S05@9'	11/08/2023	9'	8.75	0.223	0.954	<2.00
BKG01@1'	11/23/2022	1'	7.8	NA	NA	NA
BKG01@10'	10/27/2023	10'	8.51	0.463	1.9	<2.00
BKG01@9'	10/27/2023	9'	8.24	0.487	3.34	<2.00
BKG02@10'	10/27/2023	10'	8.43	1.34	4.64	<2.00
BKG02@9'	10/27/2023	9'	8.17	1.94	4.32	<2.00
BKG03@10'	10/27/2023	10'	8.16	3.04	6.04	<2.00
BKG03@9'	10/27/2023	9'	8.15	2.48	5.05	<2.00
BKG04@10'	10/27/2023	10'	8.73	0.3	1.33	<2.00
BKG04@9'	10/27/2023	9'	8.75	0.359	1.61	<2.00
BKG05@10'	10/27/2023	10'	8.34	0.45	2.16	<2.00
BKG05@9'	10/27/2023	9'	8.77	0.375	1.55	<2.00
Maximum Root Background Concentration (0 - 3 ft)			7.8	NA	NA	NA
Average Root Background Concentration (0 - 3 ft)			7.8	NA	NA	NA
Maximum Background Concentration			8.77	NA	NA	NA
Average Background Concentration			8.37	NA	NA	NA

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

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

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

 = Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
CLYNCKE STATE B 36-25, BAKER STATE B 36-12, WELD COUNTY, COLORADO
REM # 20768

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
SB- AST E 8ft	06/14/2023	8	1.23	189	0.32	<0.30	4.05	10.6	2.18	<0.357	0.0576	11
SB- AST E2 9ft	06/14/2023	9	4.63	175	0.411	<0.30	10.6	14.5	6.31	<0.331	0.108	26.4
SB- AST E3 8ft	06/14/2023	8	5.23	106	0.397	<0.30	9.87	11.5	8.02	<0.336	0.0915	23.8
SB- AST N	06/14/2023	8	5.25	99.2	0.264	<0.30	7.65	9.01	6.54	<0.343	0.049	20.1
SB- AST S 12ft	06/14/2023	12	1.13	122	<0.259	<0.30	3.27	8	0.983	<0.337	0.0399	8.71
SB- AST S 7ft	06/14/2023	7	0.631	43.2	<0.226	<0.30	2.12	3.41	0.665	0.238	<0.0226	6.57
SB- AST S2 12ft	06/14/2023	12	0.979	128	0.258	<0.30	2.97	9.08	1.15	<0.322	0.0456	9.49
SB- AST S2 8ft	06/14/2023	8	1.8	104	0.284	<0.30	3.85	10.8	2.92	<0.336	0.06	10.5
SB- AST W 10ft	06/14/2023	10	1.73	241	0.538	<0.30	4.13	13.7	2.26	<0.357	0.0703	10.8
SB- AST W 8ft	06/14/2023	8	1.24	143	0.351	<0.30	3.7	11.1	1.71	<0.337	0.0617	9.43
SB-SEP. CEN 12ft	06/14/2023	12	0.638	23.3	<0.235	<0.30	0.823	2.26	<0.470	<0.305	<0.0235	4.32
SB-SEP. CEN 7ft	06/14/2023	7	0.52	33.3	<0.218	<0.30	1.41	2.8	0.513	<0.283	<0.0218	5.07
SB-SEP. E 12ft	06/14/2023	12	0.532	16.7	<0.228	<0.30	0.857	2.77	<0.457	<0.297	<0.0228	4.02
SB-SEP. E 7ft	06/14/2023	7	0.865	82.4	0.24	<0.30	4.01	12	2.1	<0.312	0.061	10.1
SB-SEP. E2 7ft	06/14/2023	7	0.479	26.5	<0.233	<0.30	1.46	3.13	<0.466	<0.303	<0.0233	6.14
SB-SEP. E2 9ft	06/14/2023	9	1.18	266	0.38	<0.30	4.39	15.8	2.53	<0.342	0.0975	12
SB-SEP. N 11ft	06/14/2023	11	0.524	16.3	<0.231	<0.30	0.853	1.95	<0.463	<0.301	<0.0231	4.47
SB-SEP. N 6ft	06/14/2023	6	0.525	23.1	<0.217	<0.30	1.21	2.67	0.437	<0.282	<0.0217	4.59
SB-SEP. N2 11ft	06/14/2023	11	1.91	38.1	<0.231	<0.30	0.979	2.84	0.548	<0.300	<0.0231	4.79
SB-SEP. N2 7ft	06/14/2023	7	1.1	83.6	<0.259	<0.30	3.26	8.73	1.78	<0.337	0.0503	9.54
SB-SEP. N3 12ft	06/14/2023	12	0.5	35.5	<0.239	<0.30	1.07	2.66	0.585	<0.311	<0.0239	5.5
SB-SEP. N3 8ft	06/14/2023	8	0.987	67.3	<0.249	<0.30	2.71	9.16	1.68	<0.324	0.0518	8.9
SB-SEP. S 10ft	06/14/2023	10	1.46	72.8	<0.228	<0.30	1.44	3.52	1.41	<0.296	0.0228	5.59
SB-SEP. S 7ft	06/14/2023	7	0.765	32.2	<0.225	<0.30	1.61	3.36	0.612	<0.293	<0.0225	5.74
SB-SEP. S2 11ft	06/14/2023	11	0.478	7.71	<0.229	<0.30	0.508	1.42	<0.459	<0.298	<0.0229	2.99
SB-SEP. S2 8ft	06/14/2023	8	0.909	159	<0.241	<0.30	3.13	9.23	1.69	<0.314	0.0492	9.3
SB-SEP. W 11ft	06/14/2023	11	1.25	79.7	<0.256	<0.30	2.76	7.99	1.74	<0.333	0.0359	8.68
SB-SEP. W 8ft	06/14/2023	8	0.76	53.2	<0.231	<0.30	2.57	4.72	1.23	<0.300	0.0263	8.46
B01@12'	10/20/2023	12'	1.58	4.9	<0.200	<0.30	1.28	1.27	<0.400	<0.260	<0.0200	3.5
S01@9'	10/20/2023	9'	5.68	286	0.349	<0.30	10.5	17.3	8.67	<0.260	0.081	27
W01@9'	10/20/2023	9'	1.46	19.9	<0.200	<0.30	6.84	3.12	1.61	<0.260	<0.0200	10.3

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
B02@10'	10/23/2023	10'	0.549	3.19	<0.200	<0.30	<0.400	0.717	<0.400	<0.260	<0.0200	2.34
N01@9'	10/23/2023	9'	1.54	76	<0.200	<0.30	3.26	5.85	0.816	<0.260	0.0394	12.1
W02@9'	10/23/2023	9'	1.52	161	<0.200	<0.30	3.23	6.63	0.905	<0.260	0.0428	11.8
B03@10'	10/24/2023	10'	0.81	53.2	<0.200	<0.30	1.89	3.51	1.6	2.79	<0.0200	6.29
N02@9'	10/24/2023	9'	1.35	159	<0.200	<0.30	3.71	11.5	2.43	3.14	0.0566	9.62
B04@10'	10/25/2023	10'	1.02	72.8	<0.200	<0.30	2.06	4.85	1.57	2.04	0.0313	6.56
B05@10'	10/25/2023	10'	1.06	116	0.222	<0.30	4.09	14.4	2.19	2.43	0.121	11.4
S02@9'	10/25/2023	9'	1.21	101	<0.200	<0.30	2.77	10	2.43	2.36	0.0528	8.75
B06@10'	10/26/2023	10'	4.99	151	0.223	<0.30	7.08	12.2	4.8	<0.260	0.0511	17.3
N03@9'	10/26/2023	9'	8.56	90.4	0.318	<0.30	7.91	12.5	6.43	<0.260	0.0607	20.3
B08@10'	10/30/2023	10'	1.12	22.7	<0.200	<0.30	4.23	3.69	2.24	<0.260	<0.0200	12.5
S03@9'	10/30/2023	9'	0.766	27.7	<0.200	<0.30	2.57	3.17	2.06	<0.260	<0.0200	11
B07@10'	10/31/2023	10'	1.47	145	<0.200	<0.30	3.93	11.7	3.03	<0.260	0.0457	9.29
B09@10'	11/01/2023	10'	1.22	53.5	<0.200	<0.30	4.63	6.86	3.1	<0.260	0.0251	12.8
E01@9'	11/01/2023	9'	1.92	83.9	<0.200	<0.30	5.27	10.6	3.76	<0.260	0.0504	12.5
N04@9'	11/01/2023	9'	2.4	213	0.302	<0.30	5.49	11	4.37	<0.260	0.0764	14.4
B10@10'	11/02/2023	10'	1.21	253	0.236	<0.30	4.83	16.2	2.56	<0.260	0.0772	11.3
B11@10'	11/02/2023	10'	1.32	233	0.235	<0.30	4.76	15.1	2.77	<0.260	0.0777	11.4
S04@9'	11/02/2023	9'	0.976	91	<0.200	<0.30	3.57	9.3	2.68	<0.260	0.0497	9.83
B10@10.5'	11/03/2023	10.5'	0.637	14.6	<0.200	<0.30	0.77	1.88	0.589	<0.260	<0.0200	3.48
B12@10'	11/06/2023	10'	1.32	70.5	0.208	<0.30	5.37	9.38	4.39	<0.260	0.0362	22.1
N05@9'	11/06/2023	9'	8.35	224	0.448	<0.30	12.5	21.1	7.24	<0.260	0.11	30.2
B12@10'	11/08/2023	10'	0.92	4.85	<0.200	<0.30	0.908	1.32	0.788	<0.260	<0.0200	3.2
B13@10'	11/08/2023	10'	1.13	5.63	<0.200	<0.30	1.1	1.32	0.901	<0.260	<0.0200	3.59
E02@9'	11/08/2023	9'	3.32	52.2	<0.200	<0.30	4.76	6.72	4.73	<0.260	0.0295	16.7
S05@9'	11/08/2023	9'	1.16	36.7	<0.200	<0.30	3.07	3.05	1.99	<0.260	<0.0200	10.1
BKG01@10'	10/27/2023	10'	1.29	43.8	<0.200	<0.30	1.83	4.27	2.01	<0.260	<0.0200	6.17
BKG01@9'	10/27/2023	9'	1.56	56.3	<0.200	<0.30	1.84	4.23	2.64	<0.260	<0.0200	6.91
BKG02@10'	10/27/2023	10'	0.988	225	0.317	<0.30	4.55	10.8	3.08	<0.260	0.0589	13.7
BKG02@9'	10/27/2023	9'	1.02	254	0.262	<0.30	4.98	12.1	3.53	0.262	0.0738	15.4
BKG03@10'	10/27/2023	10'	1.62	219	0.358	<0.30	5.51	15.9	3.98	0.335	0.0809	14.5
BKG03@9'	10/27/2023	9'	1.18	199	0.333	<0.30	5.13	15.6	3.87	0.268	0.08	14.9
BKG04@10'	10/27/2023	10'	1.39	113	<0.200	<0.30	3.66	9.71	4.6	<0.260	0.0384	11.6
BKG04@9'	10/27/2023	9'	0.998	86.2	<0.200	<0.30	3.59	7.62	2.62	<0.260	0.0352	10.1

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
BKG05@10'	10/27/2023	10'	0.65	29.2	<0.200	<0.30	1.75	3.23	1.29	<0.260	<0.0200	6.87
BKG05@9'	10/27/2023	9'	1.51	126	0.229	<0.30	4.24	9.68	3.64	<0.260	0.0431	11.9
Maximum Root Zone Background Concentration (0 - 3 ft)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
125% Average Root Zone Background Concentration (0 - 3 ft)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maximum Background Concentration			1.62	254.00	0.36	NA	5.51	15.90	4.60	0.34	NA	NA
125% Average Background Concentration			1.53	168.94	0.37	NA	4.64	11.64	3.91	0.36	NA	NA

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

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

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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

 = Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE 100322
CLYNCKE STATE B 36-25, BAKER STATE B 36-12, WELD COUNTY, COLORADO
REM # 20768

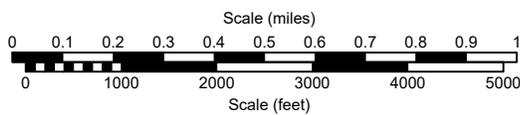
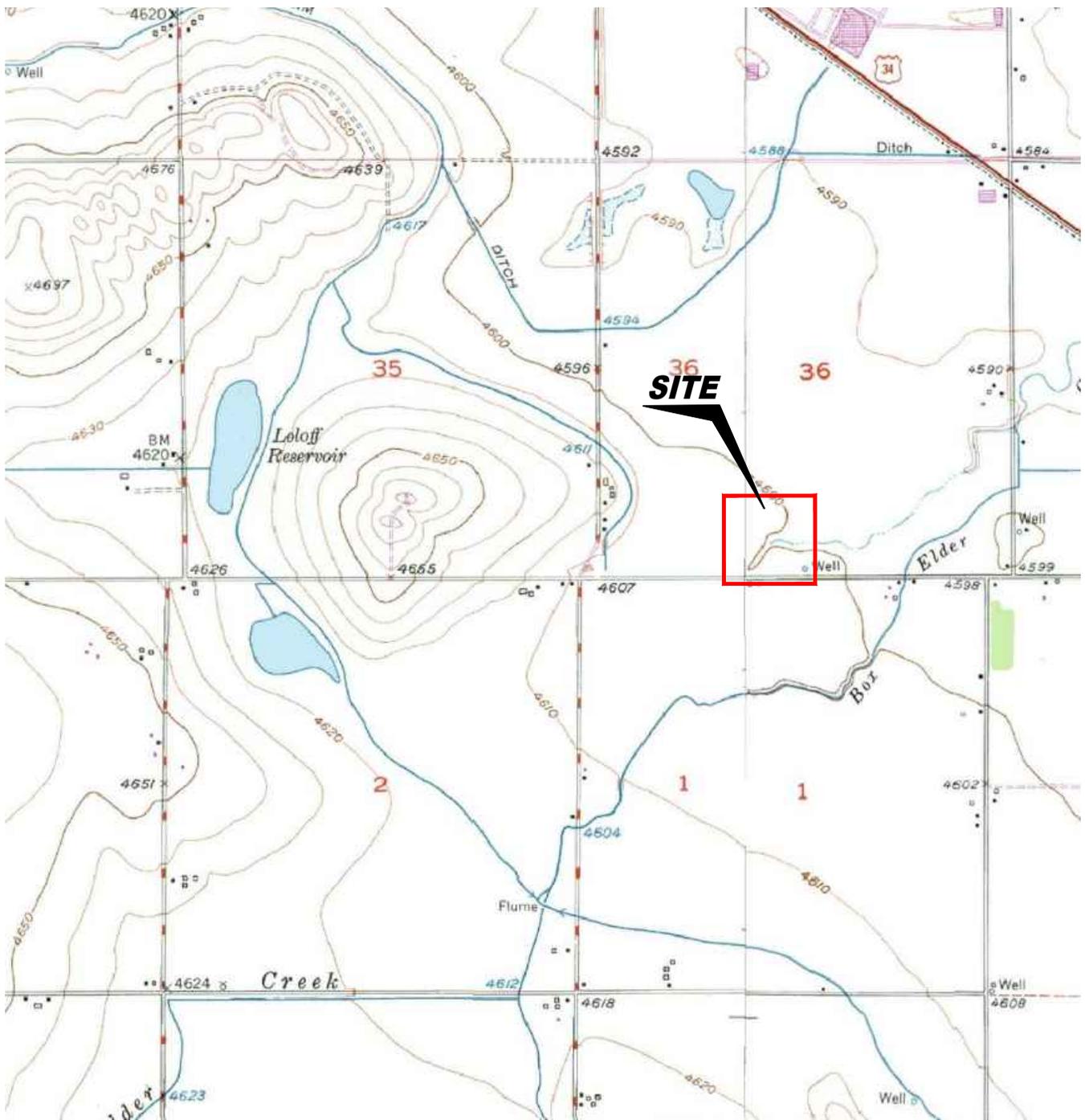
Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater Below TOC (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
EAST	06/14/2023	<1.0	<1.0	<1.0	<2.0	25	<1.0	<1.0	NM	NP	~5	NP
WEST	06/14/2023	1.2	<1.0	<1.0	<2.0	28	1.3	<1.0	NM	NP	~5	NP
GW01	10/20/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
GW02	10/23/2023	<1.0	<1.0	<1.0	<2.0	<1.0	9.2	<1.0	NA	NA	NA	NA
GW03	10/24/2023	<1.0	<1.0	<1.0	<2.0	3	8.7	<1.0	NA	NA	NA	NA
GW04	10/25/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
GW05	10/25/2023	<1.0	<1.0	1.3	<2.0	17	3.8	<1.0	NA	NA	NA	NA
GW06	10/26/2023	<1.0	<1.0	<1.0	<2.0	12	<1.0	<1.0	NA	NA	NA	NA
GW07	10/27/2023	<1.0	<1.0	1.7	<2.0	55	200	<1.0	NA	NA	NA	NA
GW08	10/30/2023	<1.0	<1.0	<1.0	<2.0	<1.0	3.5	<1.0	NA	NA	NA	NA

1. Bold values exceed the ECMC limit(s)

2. Red highlighted groundwater analytical values indicate a regulatory exceedance

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

FIGURES



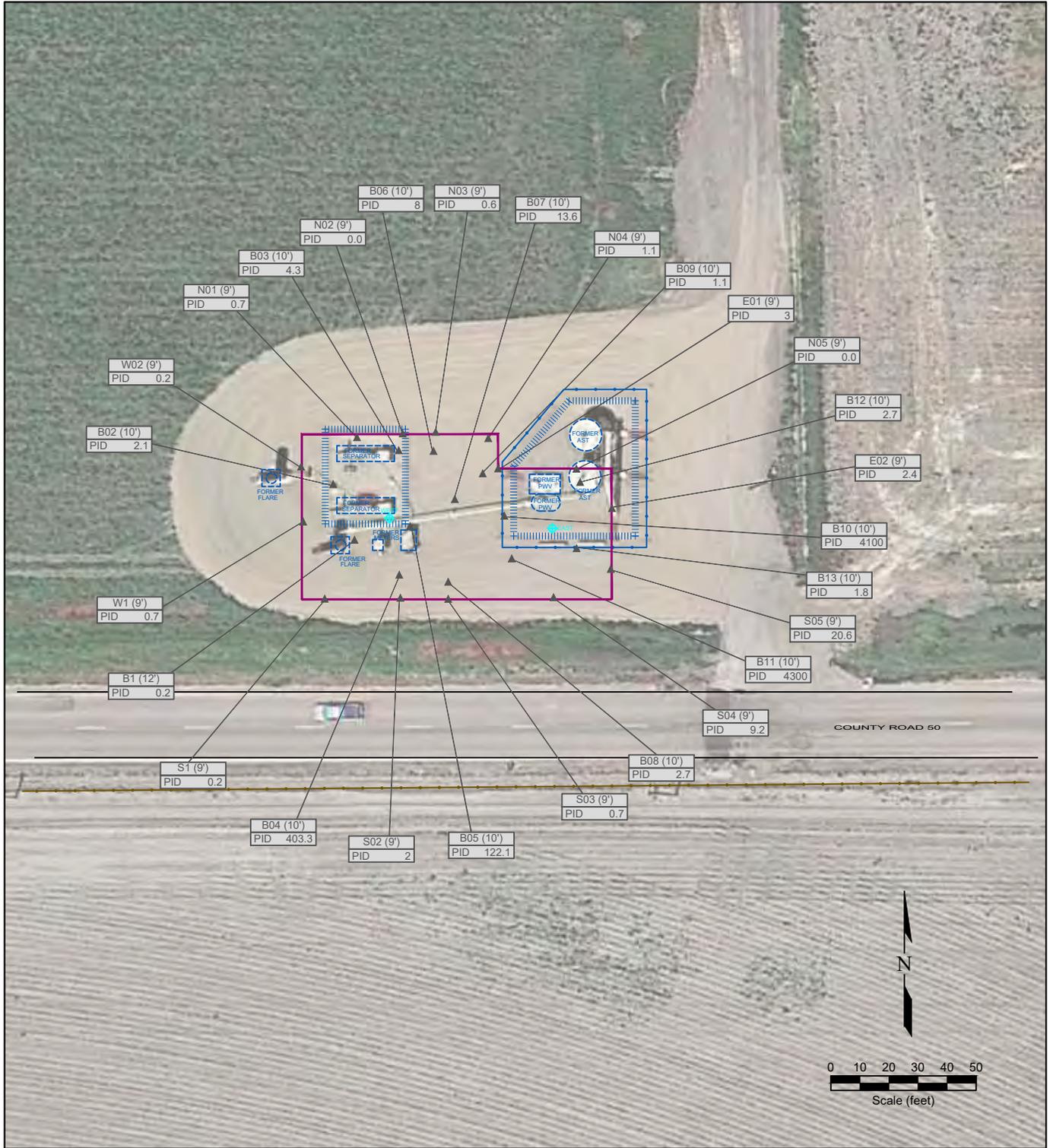
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc.
Clyncke State B 36-25, Baker State B 36-12
 SESW Sec. 36, T5N, R64W, 6th PM
 Weld County, Colorado
 40.348912°, -104.50249°

Project # C022-187	API #	Facility # 447562
Date 2/6/24	Remediation # 20768	Filename 22187TE





LEGEND

- ▲ PID READING LOCATION
- ⊕ DESTROYED MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- BUILDING
- FORMER FACILITY
- BUILDING
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION

B12 (10') PID 2.7
 PID READING SAMPLE IDENTIFICATION AND DEPTH (ft)
 PHOTO IONIZATION DETECTION / PARTS PER MILLION

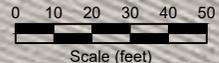
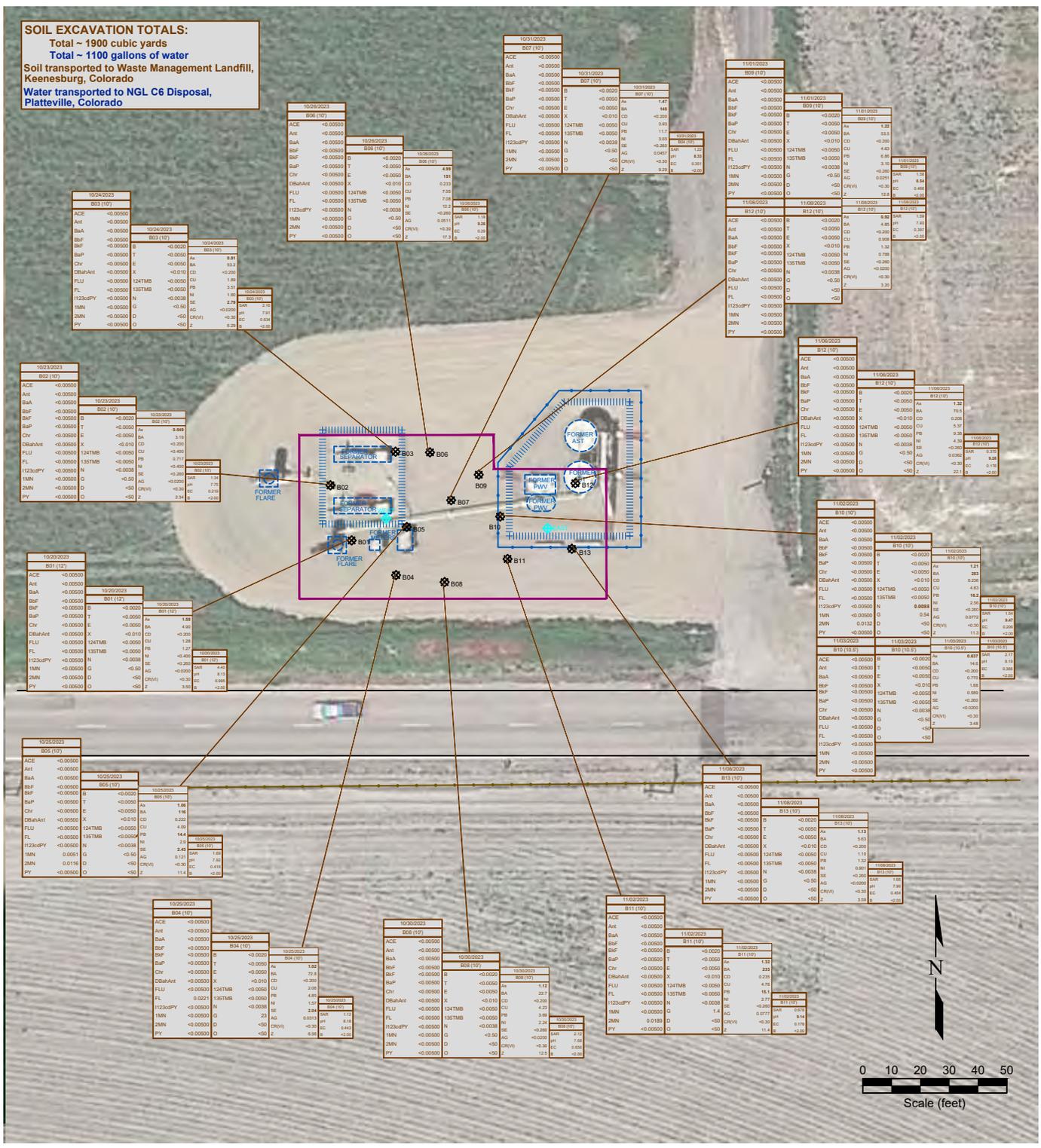
**Figure 2
 SITE MAP**

Noble Energy, Inc.
Clyncke State B 36-25, Baker State B 36-12
 SESW Sec. 36, T5N, R64W, 6th PM
 Weld County, Colorado
 40.3489124°, -104.50249°

Project No. C022-187	API #	Facility # 447562
Date 10/17/24	Remediation # 20768	Filename 22187QE1



SOIL EXCAVATION TOTALS:
 Total ~ 1900 cubic yards
 Total ~ 1100 gallons of water
 Soil transported to Waste Management Landfill, Keenesburg, Colorado
 Water transported to NGL C6 Disposal, Platteville, Colorado



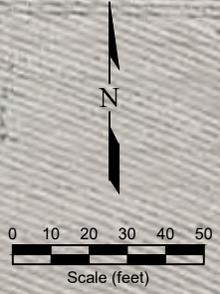
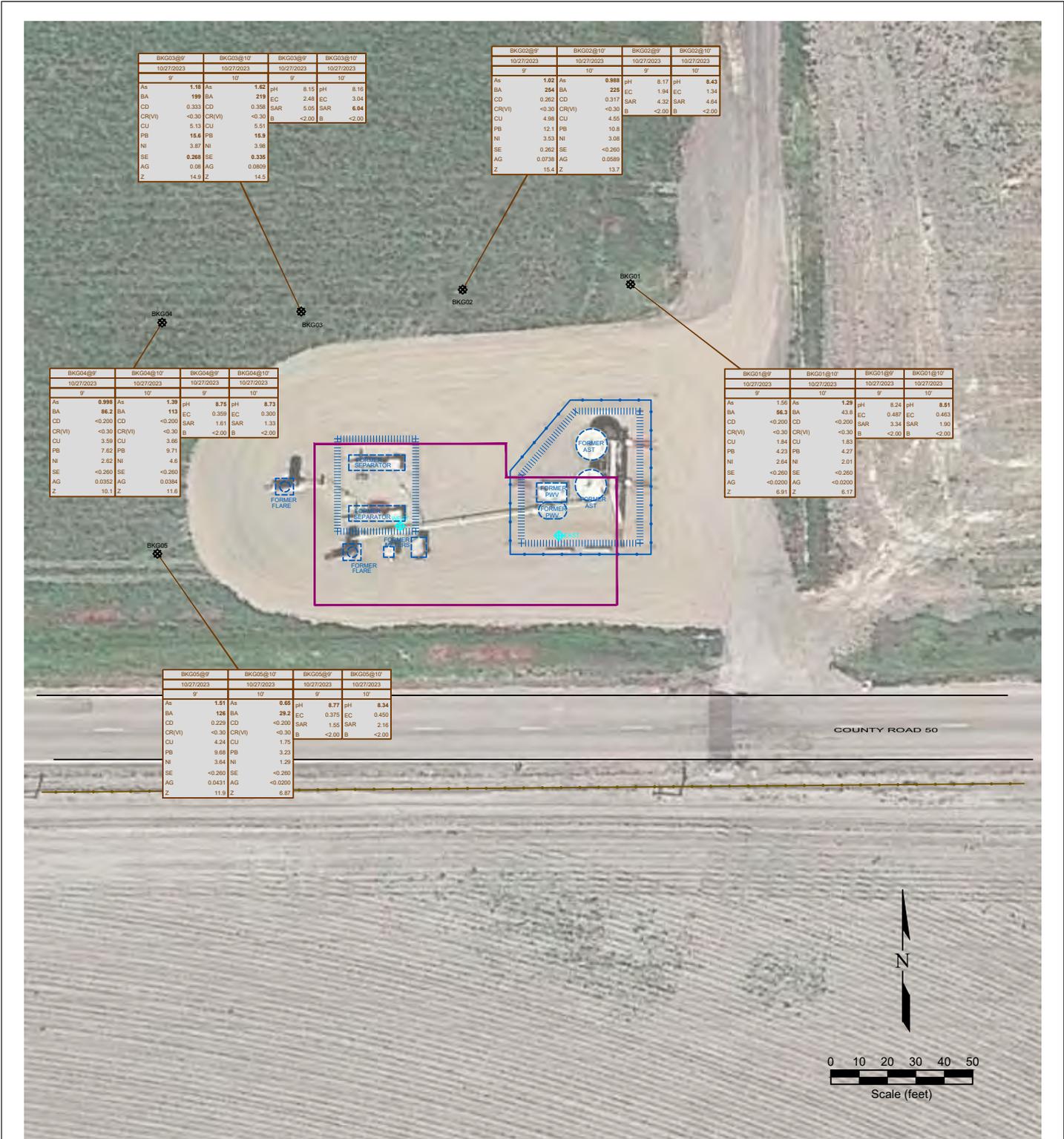
LEGEND

- SOIL SAMPLE LOCATION
- DESTROYED MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER BUILDING
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
10/20/2023	B01 (12)	10/20/2023	B01 (12)
ACE	<0.0050	ACE	<0.0050
Ant	<0.0050	Ant	<0.0050
BaA	<0.0050	BaA	<0.0050
BaP	<0.0050	BaP	<0.0050
Ch	<0.0050	Ch	<0.0050
DBaAnt	<0.0050	DBaAnt	<0.0050
FLU	<0.0050	FLU	<0.0050
H123aPY	<0.0050	H123aPY	<0.0050
1MN	<0.0050	1MN	<0.0050
2MN	<0.0050	2MN	<0.0050
PY	<0.0050	PY	<0.0050

Figure 4
SOIL CHEMISTRY MAP
 Noble Energy, Inc.
 Clyncke State B 36-25, Baker State B 36-12
 SESW Sec. 36, T5N, R64W, 6th PM
 Weld County, Colorado
 40.3489124°, -104.50249°

Project No. C022-187	API #	Facility # 447562
Date 2/17/24	Remediation # 20768	Filename 22187QE



LEGEND

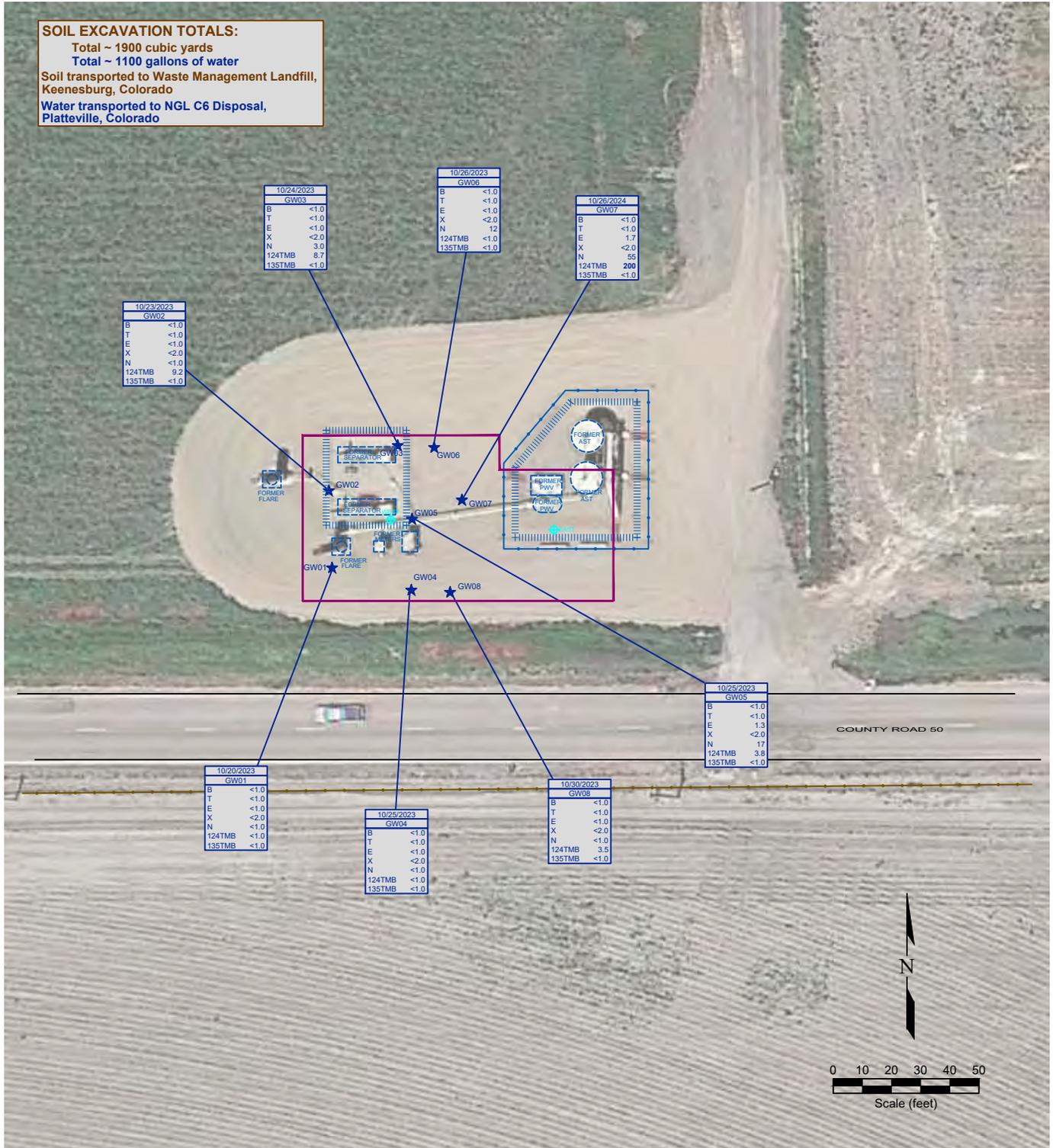
- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FENCE LINE
- DESTROYED MONITORING WELL
- STORAGE TANK
- BUILDING
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION

SAMPLE DATE	SAMPLE ID	DEPTH (ft)	SAMPLE DATE	SAMPLE ID	DEPTH (ft)
10/27/2023	BKG03@9'	9'	10/27/2023	BKG02@10'	10'
10/27/2023	BKG04@9'	9'	10/27/2023	BKG01@9'	9'
10/27/2023	BKG05@9'	9'			

Figure 5
BACKGROUND SAMPLE SOIL CHEMISTRY MAP
Noble Energy, Inc.
Clyncke State B 36-25, Baker State B 36-12
 SESW Sec. 36, T5N, R64W, 6th PM
 Weld County, Colorado
 40.3489124°, -104.50249°

Project No. C022-187	API #	Facility # 447562	
Date 7/16/24	Remediation # 20768	Filename 22187QE1	

SOIL EXCAVATION TOTALS:
 Total ~ 1900 cubic yards
 Total ~ 1100 gallons of water
 Soil transported to Waste Management Landfill,
 Keenesburg, Colorado
 Water transported to NGL C6 Disposal,
 Platteville, Colorado



10/24/2023	
GW03	
B	<1.0
T	<1.0
E	<1.0
X	<2.0
N	3.0
124TMB	8.7
135TMB	<1.0

10/28/2023	
GW06	
B	<1.0
T	<1.0
E	<1.0
X	<2.0
N	12
124TMB	<1.0
135TMB	<1.0

10/29/2024	
GW07	
B	<1.0
T	<1.0
E	1.7
X	<2.0
N	55
124TMB	200
135TMB	<1.0

10/23/2023	
GW02	
B	<1.0
T	<1.0
E	<1.0
X	<2.0
N	<1.0
124TMB	9.2
135TMB	<1.0

10/25/2023	
GW05	
B	<1.0
T	<1.0
E	1.3
X	<2.0
N	17
124TMB	3.8
135TMB	<1.0

10/20/2023	
GW01	
B	<1.0
T	<1.0
E	<1.0
X	<2.0
N	<1.0
124TMB	<1.0
135TMB	<1.0

10/25/2023	
GW04	
B	<1.0
T	<1.0
E	<1.0
X	<2.0
N	<1.0
124TMB	<1.0
135TMB	<1.0

10/30/2023	
GW08	
B	<1.0
T	<1.0
E	<1.0
X	<2.0
N	<1.0
124TMB	3.5
135TMB	<1.0

LEGEND

- ★ GROUNDWATER SAMPLE LOCATION
- ⊕ DESTROYED MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER BUILDING
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION

10/20/2023	DATE SAMPLED
GW01	SAMPLE ID
B	BENZENE (ug/L)
T	TOLUENE (ug/L)
E	ETHYLBENZENE (ug/L)
X	TOTAL XYLENES (ug/L)
N	NAPHTHALENE (ug/L)
124TMB	1,2,4-TRIMETHYLBENZENE (ug/L)
135TMB	1,3,5-TRIMETHYLBENZENE (ug/L)

Figure 6
GROUNDWATER CHEMISTRY MAP
 Noble Energy, Inc.
 Clyncke State B 36-25, Baker State B 36-12
 SESW Sec. 36, T5N, R64W, 6th PM
 Weld County, Colorado
 40.3489124°, -104.50249°

Project No. C022-187	API #	Facility # 447562
Date 7/16/24	Remediation # 20768	Filename 22187QE1



APPENDIX A

PHOTO LOG

Photo Log



Description:

Photo Log



Description:

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Photo Log



Description:

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Photo Log



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APPENDIX B

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 26, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2310413

Enclosed are the results of analyses for samples received by Summit Scientific on 10/20/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@12'	2310413-01	Soil	10/20/23 15:00	10/20/23 16:30
W01@9'	2310413-02	Soil	10/20/23 15:10	10/20/23 16:30
S01@9'	2310413-03	Soil	10/20/23 15:20	10/20/23 16:30
GW01	2310413-04	Water	10/20/23 09:30	10/20/23 16:30

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2310413	

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: <u>Clyncke State B36-25, Barber State B36-12</u>	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: <u>Clyncke State B36-25, Barber State B36-12</u>	PO/Billing Codes:	
Sampler Name: Aaron Otilar	Project Number: <u>C022-187</u>	Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEXN - 915	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (915-1)	TDS, Cl, SO4	TMB's - 915	
1	B01e12'	10/20/23	1500	2			2			X		X	X	X	X		X			
2	W01e9'	↓	1510	1			1					1	1	1	1		1			
3	S01e91	↓	1520	1			1					1	1	1	1		1			
4	GW01	↓	0930	3	3				X			X					X			
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>Aaron Otilar</i>	Date/Time: 10/20/23 1601	Received by: <i>Summit North Office</i>	Date/Time: 10/20/23 1601	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
				Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: <u>9.9</u>	Corrected Temperature: <u>6</u>	IR gun #: <u>1</u>	HNO3 lot #: _____			

S₂

Sample Receipt Checklist

S2 Work Order# 2310413

Client: Freemont

Client Project ID: Clyncke State B36-25

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

Airbill #:

Baker State B36-12

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

9.9

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

AS

Custodian Printed Name

10/20/23

Date/Time

23 23



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

B01@12'
2310413-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ0857	10/20/23	10/20/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ0858	10/20/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.68	69.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

B01@12'
2310413-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0863	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0226	67.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0241	72.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0873	10/23/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/20/23 15:00**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

B01@12'
2310413-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.58	0.200	mg/kg dry	1	BGJ0878	10/23/23	10/25/23	EPA 6020B
Barium	4.90	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.28	0.400	"	"	"	"	"	"
Lead	1.27	0.200	"	"	"	"	"	"
Nickel	ND	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.50	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.2	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	15.7	0.0500	"	"	"	"	"	"	
Sodium	142	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.40	0.00100	units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

B01@12'
2310413-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.2			%	1	BGJ0899	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.995	0.0100		mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/20/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.13			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

W01@9'
2310413-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ0857	10/20/23	10/20/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0428	107 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ0858	10/20/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.3	82.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

W01@9'
2310413-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0863	10/23/23	10/24/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	57.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0873	10/23/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/20/23 15:10**

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

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

W01@9'
2310413-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.46	0.200	mg/kg dry	1	BGJ0878	10/23/23	10/25/23	EPA 6020B	
Barium	19.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.84	0.400	"	"	"	"	"	"	
Lead	3.12	0.200	"	"	"	"	"	"	
Nickel	1.61	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.1	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	9.80	0.0500	"	"	"	"	"	"	
Sodium	67.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.54	0.00100	units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

W01@9'
2310413-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.3		%	1	BGJ0899	10/23/23	10/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.553	0.0100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/20/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

S01@9'
2310413-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/23 15:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ0857	10/20/23	10/20/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/20/23 15:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0471	118 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/23 15:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ0858	10/20/23	10/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/20/23 15:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.25	66.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project Number: CO22-187
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Reported:
10/26/23 11:54

S01@9'
2310413-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/23 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0863	10/23/23	10/24/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/23 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/23 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0873	10/23/23	10/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/20/23 15:20**

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

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

S01@9'
2310413-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.68	0.200	mg/kg dry	1	BGJ0878	10/23/23	10/25/23	EPA 6020B
Barium	286	0.400	"	"	"	"	"	"
Cadmium	0.349	0.200	"	"	"	"	"	"
Copper	10.5	0.400	"	"	"	"	"	"
Lead	17.3	0.200	"	"	"	"	"	"
Nickel	8.67	0.400	"	"	"	"	"	"
Silver	0.0810	0.0200	"	"	"	"	"	"
Zinc	27.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/20/23 15:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: 10/20/23 15:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.5	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B	
Magnesium	11.2	0.0500	"	"	"	"	"	"	
Sodium	28.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/20/23 15:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.01	0.00100	units	1	BGJ1066	10/26/23	10/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/20/23 15:20

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

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

S01@9'
2310413-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.0	%	1	BGJ0899	10/23/23	10/23/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/23 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.410	0.0100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/20/23 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

GW01
2310413-04 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/23 09:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BGJ0825	10/20/23	10/20/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/20/23 09:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	13.3	100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.7	103 %	21-167		"	"	"	"	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGJ0825 - EPA 5030 Water MS

Blank (BGJ0825-BLK1)

Prepared: 10/20/23 Analyzed: 10/21/23

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.0		"	13.3		89.9		23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		98.6		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.4		"	13.3		100		21-167			

LCS (BGJ0825-BS1)

Prepared: 10/20/23 Analyzed: 10/21/23

Benzene	41.6	1.0	ug/l	33.3		125		51-132			
Toluene	38.8	1.0	"	33.3		116		51-138			
Ethylbenzene	42.1	1.0	"	33.3		126		58-146			
m,p-Xylene	79.3	2.0	"	66.7		119		57-144			
o-Xylene	38.5	1.0	"	33.3		115		53-146			
Naphthalene	26.6	1.0	"	33.3		79.9		70-130			
1,2,4-Trimethylbenzene	36.8	1.0	"	33.3		110		70-130			
1,3,5-Trimethylbenzene	37.4	1.0	"	33.3		112		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	11.3		"	13.3		84.6		23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		99.3		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.2		"	13.3		99.3		21-167			

Matrix Spike (BGJ0825-MS1)

Source: 2310356-01

Prepared: 10/20/23 Analyzed: 10/21/23

Benzene	40.3	1.0	ug/l	33.3	ND	121		34-141			
Toluene	38.0	1.0	"	33.3	ND	114		27-151			
Ethylbenzene	40.6	1.0	"	33.3	ND	122		29-160			
m,p-Xylene	76.4	2.0	"	66.7	ND	115		20-166			
o-Xylene	36.8	1.0	"	33.3	ND	110		33-159			
Naphthalene	29.3	1.0	"	33.3	ND	88.0		70-130			
1,2,4-Trimethylbenzene	35.6	1.0	"	33.3	ND	107		70-130			
1,3,5-Trimethylbenzene	36.6	1.0	"	33.3	ND	110		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	11.6		"	13.3		86.9		23-173			
<i>Surrogate: Toluene-d8</i>	13.4		"	13.3		101		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.1		"	13.3		98.0		21-167			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

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		

Batch BGJ0825 - EPA 5030 Water MS

Matrix Spike Dup (BGJ0825-MSD1)

Source: 2310356-01

Prepared: 10/20/23 Analyzed: 10/21/23

Benzene	37.8	1.0	ug/l	33.3	ND	113	34-141	6.38	30
Toluene	35.7	1.0	"	33.3	ND	107	27-151	6.18	30
Ethylbenzene	38.3	1.0	"	33.3	ND	115	29-160	5.76	30
m,p-Xylene	74.4	2.0	"	66.7	ND	112	20-166	2.67	30
o-Xylene	35.8	1.0	"	33.3	ND	107	33-159	2.62	30
Naphthalene	34.6	1.0	"	33.3	ND	104	70-130	16.6	30
1,2,4-Trimethylbenzene	35.0	1.0	"	33.3	ND	105	70-130	1.64	30
1,3,5-Trimethylbenzene	35.2	1.0	"	33.3	ND	106	70-130	3.65	30
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3			23-173		
Surrogate: Toluene-d8	13.3		"	13.3			20-170		
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3			21-167		

Batch BGJ0857 - EPA 5030 Soil MS

Blank (BGJ0857-BLK1)

Prepared & Analyzed: 10/20/23

Benzene	ND	0.0020	mg/kg						
Toluene	ND	0.0050	"						
Ethylbenzene	ND	0.0050	"						
Xylenes (total)	ND	0.010	"						
1,2,4-Trimethylbenzene	ND	0.0050	"						
1,3,5-Trimethylbenzene	ND	0.0050	"						
Naphthalene	ND	0.0038	"						
Gasoline Range Hydrocarbons	ND	0.50	"						
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0400		100	50-150		
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150		
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150		

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

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 BGJ0857 - EPA 5030 Soil MS

LCS (BGJ0857-BS1)

Prepared & Analyzed: 10/20/23

Benzene	0.107	0.0020	mg/kg	0.100		107	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.201	0.010	"	0.200		101	70-130			
o-Xylene	0.0975	0.0050	"	0.100		97.5	70-130			
1,2,4-Trimethylbenzene	0.0968	0.0050	"	0.100		96.8	70-130			
1,3,5-Trimethylbenzene	0.0988	0.0050	"	0.100		98.8	70-130			
Naphthalene	0.0772	0.0038	"	0.100		77.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400		97.9	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	50-150			

Matrix Spike (BGJ0857-MS1)

Source: 2310413-01

Prepared & Analyzed: 10/20/23

Benzene	0.0918	0.0020	mg/kg	0.100	ND	91.8	70-130			
Toluene	0.0909	0.0050	"	0.100	ND	90.9	70-130			
Ethylbenzene	0.0931	0.0050	"	0.100	ND	93.1	70-130			
m,p-Xylene	0.188	0.010	"	0.200	ND	94.2	70-130			
o-Xylene	0.0902	0.0050	"	0.100	ND	90.2	70-130			
1,2,4-Trimethylbenzene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
1,3,5-Trimethylbenzene	0.0914	0.0050	"	0.100	ND	91.4	70-130			
Naphthalene	0.0815	0.0038	"	0.100	ND	81.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0420		"	0.0400		105	50-150			

Matrix Spike Dup (BGJ0857-MSD1)

Source: 2310413-01

Prepared & Analyzed: 10/20/23

Benzene	0.0966	0.0020	mg/kg	0.100	ND	96.6	70-130	5.09	30	
Toluene	0.0946	0.0050	"	0.100	ND	94.6	70-130	3.98	30	
Ethylbenzene	0.0994	0.0050	"	0.100	ND	99.4	70-130	6.55	30	
m,p-Xylene	0.197	0.010	"	0.200	ND	98.5	70-130	4.55	30	
o-Xylene	0.0946	0.0050	"	0.100	ND	94.6	70-130	4.71	30	
1,2,4-Trimethylbenzene	0.0957	0.0050	"	0.100	ND	95.7	70-130	5.64	30	
1,3,5-Trimethylbenzene	0.0959	0.0050	"	0.100	ND	95.9	70-130	4.84	30	
Naphthalene	0.0835	0.0038	"	0.100	ND	83.5	70-130	2.40	30	
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

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 BGJ0858 - EPA 3550A

Blank (BGJ0858-BLK1)

Prepared & Analyzed: 10/20/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.7		"	12.5		117		30-150			

LCS (BGJ0858-BS1)

Prepared & Analyzed: 10/20/23

C10-C28 (DRO)	424	50	mg/kg	500		84.8		70-130			
Surrogate: <i>o</i> -Terphenyl	14.3		"	12.5		114		30-150			

Matrix Spike (BGJ0858-MS1)

Source: 2310413-01

Prepared & Analyzed: 10/20/23

C10-C28 (DRO)	427	50	mg/kg	500	18.3	81.8		70-130			
Surrogate: <i>o</i> -Terphenyl	11.7		"	12.5		93.4		30-150			

Matrix Spike Dup (BGJ0858-MSD1)

Source: 2310413-01

Prepared & Analyzed: 10/20/23

C10-C28 (DRO)	430	50	mg/kg	500	18.3	82.4		70-130	0.739	20	
Surrogate: <i>o</i> -Terphenyl	9.32		"	12.5		74.6		30-150			

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

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 BGJ0863 - EPA 5030 Soil MS

Blank (BGJ0863-BLK1)

Prepared & Analyzed: 10/23/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0320</i>		"	<i>0.0333</i>		<i>96.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0323</i>		"	<i>0.0333</i>		<i>97.0</i>	<i>40-150</i>			

LCS (BGJ0863-BS1)

Prepared & Analyzed: 10/23/23

Acenaphthene	0.0306	0.00500	mg/kg	0.0333	91.8	31-137
Anthracene	0.0295	0.00500	"	0.0333	88.4	30-120
Benzo (a) anthracene	0.0289	0.00500	"	0.0333	86.8	30-120
Benzo (a) pyrene	0.0287	0.00500	"	0.0333	86.1	30-120
Benzo (b) fluoranthene	0.0297	0.00500	"	0.0333	89.0	30-120
Benzo (k) fluoranthene	0.0296	0.00500	"	0.0333	88.8	30-120
Chrysene	0.0308	0.00500	"	0.0333	92.3	30-120
Dibenz (a,h) anthracene	0.0283	0.00500	"	0.0333	85.0	30-120
Fluoranthene	0.0299	0.00500	"	0.0333	89.8	30-120
Fluorene	0.0317	0.00500	"	0.0333	95.2	30-120
Indeno (1,2,3-cd) pyrene	0.0290	0.00500	"	0.0333	87.1	30-120
Pyrene	0.0304	0.00500	"	0.0333	91.2	35-142
1-Methylnaphthalene	0.0314	0.00500	"	0.0333	94.1	35-142
2-Methylnaphthalene	0.0305	0.00500	"	0.0333	91.6	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0313</i>		"	<i>0.0333</i>	<i>93.8</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0303</i>		"	<i>0.0333</i>	<i>90.8</i>	<i>40-150</i>

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

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 BGJ0863 - EPA 5030 Soil MS

Matrix Spike (BGJ0863-MS1)	Source: 2310112-02			Prepared & Analyzed: 10/23/23						
Acenaphthene	0.0238	0.00500	mg/kg	0.0333	ND	71.3	31-137			
Anthracene	0.0210	0.00500	"	0.0333	ND	62.9	30-120			
Benzo (a) anthracene	0.0208	0.00500	"	0.0333	ND	62.5	30-120			
Benzo (a) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120			
Benzo (b) fluoranthene	0.0185	0.00500	"	0.0333	ND	55.5	30-120			
Benzo (k) fluoranthene	0.0203	0.00500	"	0.0333	ND	61.0	30-120			
Chrysene	0.0214	0.00500	"	0.0333	ND	64.3	30-120			
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333	ND	51.0	30-120			
Fluoranthene	0.0235	0.00500	"	0.0333	ND	70.5	30-120			
Fluorene	0.0228	0.00500	"	0.0333	ND	68.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333	ND	51.0	30-120			
Pyrene	0.0205	0.00500	"	0.0333	ND	61.6	35-142			
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.2	15-130			
2-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.7	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0232</i>		<i>"</i>	<i>0.0333</i>		<i>69.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0238</i>		<i>"</i>	<i>0.0333</i>		<i>71.5</i>	<i>40-150</i>			

Matrix Spike Dup (BGJ0863-MSD1)	Source: 2310112-02			Prepared & Analyzed: 10/23/23						
Acenaphthene	0.0273	0.00500	mg/kg	0.0333	ND	81.8	31-137	13.7	30	
Anthracene	0.0226	0.00500	"	0.0333	ND	67.8	30-120	7.50	30	
Benzo (a) anthracene	0.0225	0.00500	"	0.0333	ND	67.6	30-120	7.77	30	
Benzo (a) pyrene	0.0193	0.00500	"	0.0333	ND	58.0	30-120	5.79	30	
Benzo (b) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	3.82	30	
Benzo (k) fluoranthene	0.0206	0.00500	"	0.0333	ND	61.8	30-120	1.39	30	
Chrysene	0.0223	0.00500	"	0.0333	ND	67.0	30-120	4.01	30	
Dibenz (a,h) anthracene	0.0179	0.00500	"	0.0333	ND	53.8	30-120	5.36	30	
Fluoranthene	0.0241	0.00500	"	0.0333	ND	72.4	30-120	2.59	30	
Fluorene	0.0234	0.00500	"	0.0333	ND	70.1	30-120	2.43	30	
Indeno (1,2,3-cd) pyrene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	6.36	30	
Pyrene	0.0220	0.00500	"	0.0333	ND	65.9	35-142	6.73	30	
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.3	15-130	0.134	50	
2-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.2	15-130	2.23	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0221</i>		<i>"</i>	<i>0.0333</i>		<i>66.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0244</i>		<i>"</i>	<i>0.0333</i>		<i>73.1</i>	<i>40-150</i>			

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

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 BGJ0873 - EPA 3050B

Blank (BGJ0873-BLK1)

Prepared: 10/23/23 Analyzed: 10/24/23

Boron ND 2.00 mg/L

LCS (BGJ0873-BS1)

Prepared: 10/23/23 Analyzed: 10/24/23

Boron 5.08 2.00 mg/L 5.00 102 80-120

Duplicate (BGJ0873-DUP1)

Source: 2310291-01

Prepared: 10/23/23 Analyzed: 10/24/23

Boron 0.864 2.00 mg/L 0.783 9.90 20

Matrix Spike (BGJ0873-MS1)

Source: 2310291-01

Prepared: 10/23/23 Analyzed: 10/24/23

Boron 5.90 2.00 mg/L 5.00 0.783 102 75-125

Matrix Spike Dup (BGJ0873-MSD1)

Source: 2310291-01

Prepared: 10/23/23 Analyzed: 10/24/23

Boron 5.88 2.00 mg/L 5.00 0.783 102 75-125 0.355 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0878 - EPA 3050B

Blank (BGJ0878-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

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

LCS (BGJ0878-BS1)

Prepared: 10/23/23 Analyzed: 10/25/23

Arsenic	37.0	0.200	mg/kg wet	40.0	92.5	80-120
Barium	41.0	0.400	"	40.0	103	80-120
Cadmium	2.22	0.200	"	2.00	111	80-120
Copper	41.2	0.400	"	40.0	103	80-120
Lead	21.9	0.200	"	20.0	109	80-120
Nickel	47.5	0.400	"	40.0	119	80-120
Silver	2.10	0.0200	"	2.00	105	80-120
Zinc	40.5	0.400	"	40.0	101	80-120
Selenium	4.58	0.260	"	4.00	115	80-120

Duplicate (BGJ0878-DUP1)

Source: 2310292-04

Prepared: 10/23/23 Analyzed: 10/25/23

Arsenic	1.26	0.200	mg/kg dry	1.16	7.89	20
Barium	34.0	0.400	"	31.3	8.37	20
Cadmium	0.104	0.200	"	0.0953	8.55	20
Copper	3.37	0.400	"	3.19	5.36	20
Lead	4.13	0.200	"	3.68	11.7	20
Nickel	2.35	0.400	"	2.02	15.0	20
Silver	0.0123	0.0200	"	0.0115	7.14	20
Zinc	11.0	0.400	"	10.0	9.13	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

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 BGJ0878 - EPA 3050B

Matrix Spike (BGJ0878-MS1)

Source: 2310292-04

Prepared: 10/23/23 Analyzed: 10/25/23

Arsenic	36.3	0.200	mg/kg dry	42.5	1.16	82.5	75-125			
Barium	65.3	0.400	"	42.5	31.3	79.9	75-125			
Cadmium	2.06	0.200	"	2.13	0.0953	92.5	75-125			
Copper	39.3	0.400	"	42.5	3.19	84.9	75-125			
Lead	22.9	0.200	"	21.3	3.68	90.4	75-125			
Nickel	37.9	0.400	"	42.5	2.02	84.4	75-125			
Silver	1.90	0.0200	"	2.13	0.0115	88.8	75-125			
Zinc	47.2	0.400	"	42.5	10.0	87.5	75-125			
Selenium	4.27	0.260	"	4.25	ND	100	75-125			

Matrix Spike Dup (BGJ0878-MSD1)

Source: 2310292-04

Prepared: 10/23/23 Analyzed: 10/25/23

Arsenic	35.9	0.200	mg/kg dry	42.5	1.16	81.6	75-125	1.08	25
Barium	68.8	0.400	"	42.5	31.3	88.2	75-125	5.23	25
Cadmium	2.16	0.200	"	2.13	0.0953	97.3	75-125	4.87	25
Copper	39.0	0.400	"	42.5	3.19	84.2	75-125	0.766	25
Lead	24.2	0.200	"	21.3	3.68	96.5	75-125	5.51	25
Nickel	37.2	0.400	"	42.5	2.02	82.8	75-125	1.83	25
Silver	1.99	0.0200	"	2.13	0.0115	93.1	75-125	4.66	25
Zinc	46.6	0.400	"	42.5	10.0	86.0	75-125	1.44	25
Selenium	4.44	0.260	"	4.25	ND	104	75-125	3.84	25

Post Spike (BGJ0878-PS1)

Source: 2310292-04

Prepared: 10/23/23 Analyzed: 10/25/23

Arsenic	91.7		ug/l	100	2.74	89.0	75-125		
Barium	168		"	100	73.6	94.6	75-125		
Cadmium	5.55		"	5.00	0.224	107	75-125		
Copper	99.9		"	100	7.50	92.4	75-125		
Lead	61.3		"	50.0	8.65	105	75-125		
Nickel	95.9		"	100	4.76	91.2	75-125		
Silver	5.17		"	5.00	0.0270	103	75-125		
Zinc	117		"	100	23.5	93.8	75-125		
Selenium	11.3		"	10.0	0.134	112	75-125		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

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 BGJ0881 - 3060A Mod

Blank (BGJ0881-BLK1)

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ0881-BS1)

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 26.2 0.30 mg/kg wet 25.0 105 80-120

Duplicate (BGJ0881-DUP1)

Source: 2310297-01

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ0881-MS1)

Source: 2310297-01

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 29.6 0.30 mg/kg dry 29.7 ND 99.6 75-125

Matrix Spike Dup (BGJ0881-MSD1)

Source: 2310297-01

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent 28.8 0.30 mg/kg dry 29.7 ND 97.0 75-125 2.64 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

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 BGJ0859 - General Preparation

Blank (BGJ0859-BLK1)

Prepared: 10/20/23 Analyzed: 10/24/23

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

LCS (BGJ0859-BS1)

Prepared: 10/20/23 Analyzed: 10/24/23

Calcium	5.54	0.0500	mg/L wet	5.00		111	70-130			
Magnesium	5.76	0.0500	"	5.00		115	70-130			
Sodium	5.53	0.0500	"	5.00		111	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

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 BGJ0899 - General Preparation

Duplicate (BGJ0899-DUP1)

Source: 2310190-01

Prepared & Analyzed: 10/23/23

% Solids	94.8		%		94.8			0.00290	20	
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Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

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 BGJ0890 - General Preparation

Blank (BGJ0890-BLK1)

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ0890-BS1)

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

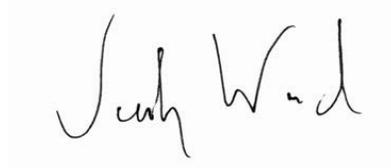
Duplicate (BGJ0890-DUP1)

Source: 2310291-01

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) 1.53 0.0100 mmhos/cm 1.54 0.845 20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/26/23 11:54

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 BGJ0891 - General Preparation

LCS (BGJ0891-BS1)

Prepared & Analyzed: 10/23/23

pH 9.15 pH Units 9.18 99.7 95-105

Duplicate (BGJ0891-DUP1)

Source: 2310291-01

Prepared & Analyzed: 10/23/23

pH 8.08 pH Units 8.07 0.124 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/26/23 11:54

Notes and Definitions

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

October 30, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2310434

Enclosed are the results of analyses for samples received by Summit Scientific on 10/23/23 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@9'	2310434-01	Soil	10/23/23 09:21	10/23/23 16:50
W02@9'	2310434-02	Soil	10/23/23 09:22	10/23/23 16:50
B02@10'	2310434-03	Soil	10/23/23 09:23	10/23/23 16:50
GW02	2310434-04	Water	10/23/23 09:24	10/23/23 16:50

Summit Scientific

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

Lab ID	Page 1 of 1
2310434	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: Clynhe State B36-25, Baker State B36-12
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: Clynhe State B36-25, Baker State B36-12	PO/Billing Codes:
Sampler Name: Stanley Gilbert		Project Number: C022-187	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	N0169'	10/23/23	9:21	2			X			X			X	X	X	X			
2	W0269'		9:22	1															
3	B02@10'		9:23	1															
4	GW02		9:24	3	3				X				X				X		
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 10/23/23 16:50	Received by: Summit North	Date/Time: 10/23/23 16:50	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time: 10/23/23 16:50	Received by:	Date/Time: 10/23/23 16:50	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: 14.4	Corrected Temperature:	IR gun #:	1	HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2310434

Client: Tromont

Client Project ID: Clynke State B36-25

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

Airbill #: Baker State B36-12

-

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

14.4

Thermometer #

1

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

10/23/23

Date/Time

5 5 5



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

N01@9'
2310434-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ0912	10/23/23	10/23/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0462	116 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0368	92.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0369	92.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ0913	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.08	48.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

N01@9'
2310434-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0916	10/24/23	10/26/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0235	70.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0269	80.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0947	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/23/23 09:21**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

N01@9'
2310434-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.54	0.200	mg/kg dry	1	BGJ0924	10/24/23	10/25/23	EPA 6020B	
Barium	76.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.26	0.400	"	"	"	"	"	"	
Lead	5.85	0.200	"	"	"	"	"	"	
Nickel	0.816	0.400	"	"	"	"	"	"	
Silver	0.0394	0.0200	"	"	"	"	"	"	
Zinc	12.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0935	10/24/23	10/24/23	EPA 7196A	

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

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.4	0.0500	mg/L dry	1	BGJ0945	10/24/23	10/26/23	EPA 6020B	
Magnesium	6.18	0.0500	"	"	"	"	"	"	
Sodium	22.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.04	0.00100	units	1	BGJ1109	10/27/23	10/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 10:36

N01@9'
2310434-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.2		%	1	BGJ0982	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.159	0.0100	mmhos/cm	1	BGJ0990	10/25/23	10/25/23	EPA 120.1	

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

Date Sampled: **10/23/23 09:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BGJ0989	10/25/23	10/25/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

W02@9'
2310434-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0912	10/23/23	10/23/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0448	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0376	93.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0372	93.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0913	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.01	48.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

W02@9'
2310434-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0916	10/24/23	10/26/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0193	57.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0215	64.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0947	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/23/23 09:22**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

W02@9'
2310434-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.52	0.200	mg/kg dry	1	BGJ0924	10/24/23	10/25/23	EPA 6020B	
Barium	161	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.23	0.400	"	"	"	"	"	"	
Lead	6.63	0.200	"	"	"	"	"	"	
Nickel	0.905	0.400	"	"	"	"	"	"	
Silver	0.0428	0.0200	"	"	"	"	"	"	
Zinc	11.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0935	10/24/23	10/24/23	EPA 7196A	

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

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.9	0.0500	mg/L dry	1	BGJ0945	10/24/23	10/26/23	EPA 6020B	
Magnesium	5.37	0.0500	"	"	"	"	"	"	
Sodium	21.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.04	0.00100	units	1	BGJ1109	10/27/23	10/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 10:36

W02@9'
2310434-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.5		%	1	BGJ0982	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.170	0.0100	mmhos/cm	1	BGJ0990	10/25/23	10/25/23	EPA 120.1	

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

Date Sampled: **10/23/23 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.46		pH Units	1	BGJ0989	10/25/23	10/25/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

B02@10'
2310434-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ0912	10/23/23	10/23/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0422	106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0360	90.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0360	89.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ0913	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.29	74.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

B02@10'
2310434-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0916	10/24/23	10/26/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0267	80.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0947	10/24/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

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

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

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

B02@10'
2310434-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.549	0.200	mg/kg dry	1	BGJ0924	10/24/23	10/25/23	EPA 6020B
Barium	3.19	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	ND	0.400	"	"	"	"	"	"
Lead	0.717	0.200	"	"	"	"	"	"
Nickel	ND	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	2.34	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/23/23 09:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0935	10/24/23	10/24/23	EPA 7196A	

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

Date Sampled: 10/23/23 09:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.7	0.0500	mg/L dry	1	BGJ0945	10/24/23	10/26/23	EPA 6020B	
Magnesium	6.20	0.0500	"	"	"	"	"	"	
Sodium	25.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/23/23 09:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.34	0.00100	units	1	BGJ1109	10/27/23	10/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 10:36

B02@10'
2310434-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	86.0			%	1	BGJ0982	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.219	0.0100		mmhos/cm	1	BGJ0990	10/25/23	10/25/23	EPA 120.1	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.75			pH Units	1	BGJ0989	10/25/23	10/25/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 10:36

GW02
2310434-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/23/23 09:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BGJ0909	10/23/23	10/23/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	9.2	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/23/23 09:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	11.4	85.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.4	108 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGJ0909 - EPA 5030 Water MS

Blank (BGJ0909-BLK1)

Prepared & Analyzed: 10/23/23

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	10.6		"	13.3		79.2		23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.6		20-170			
Surrogate: 4-Bromofluorobenzene	14.7		"	13.3		110		21-167			

LCS (BGJ0909-BS1)

Prepared & Analyzed: 10/23/23

Benzene	39.5	1.0	ug/l	33.3		118		51-132			
Toluene	40.2	1.0	"	33.3		121		51-138			
Ethylbenzene	41.3	1.0	"	33.3		124		58-146			
m,p-Xylene	83.2	2.0	"	66.7		125		57-144			
o-Xylene	35.6	1.0	"	33.3		107		53-146			
Naphthalene	23.5	1.0	"	33.3		70.6		70-130			
1,2,4-Trimethylbenzene	34.8	1.0	"	33.3		105		70-130			
1,3,5-Trimethylbenzene	37.3	1.0	"	33.3		112		70-130			
Surrogate: 1,2-Dichloroethane-d4	11.2		"	13.3		83.6		23-173			
Surrogate: Toluene-d8	13.5		"	13.3		102		20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.5		21-167			

Matrix Spike (BGJ0909-MS1)

Source: 2310418-01

Prepared & Analyzed: 10/23/23

Benzene	35.0	1.0	ug/l	33.3	ND	105		34-141			
Toluene	45.0	1.0	"	33.3	ND	135		27-151			
Ethylbenzene	38.4	1.0	"	33.3	ND	115		29-160			
m,p-Xylene	79.4	2.0	"	66.7	ND	119		20-166			
o-Xylene	33.8	1.0	"	33.3	ND	101		33-159			
Naphthalene	25.3	1.0	"	33.3	ND	75.8		70-130			
1,2,4-Trimethylbenzene	36.4	1.0	"	33.3	ND	109		70-130			
1,3,5-Trimethylbenzene	37.8	1.0	"	33.3	ND	113		70-130			
Surrogate: 1,2-Dichloroethane-d4	12.1		"	13.3		91.0		23-173			
Surrogate: Toluene-d8	16.6		"	13.3		124		20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8		21-167			

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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

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 BGJ0909 - EPA 5030 Water MS

Matrix Spike Dup (BGJ0909-MSD1)

Source: 2310418-01

Prepared & Analyzed: 10/23/23

Benzene	37.5	1.0	ug/l	33.3	ND	113	34-141	6.81	30	
Toluene	39.2	1.0	"	33.3	ND	118	27-151	13.8	30	
Ethylbenzene	39.2	1.0	"	33.3	ND	118	29-160	2.16	30	
m,p-Xylene	78.8	2.0	"	66.7	ND	118	20-166	0.772	30	
o-Xylene	34.2	1.0	"	33.3	ND	102	33-159	1.12	30	
Naphthalene	22.7	1.0	"	33.3	ND	68.1	70-130	10.7	30	QM-07
1,2,4-Trimethylbenzene	33.1	1.0	"	33.3	ND	99.3	70-130	9.47	30	
1,3,5-Trimethylbenzene	35.0	1.0	"	33.3	ND	105	70-130	7.74	30	
Surrogate: 1,2-Dichloroethane-d4	10.8		"	13.3		80.9	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	21-167			

Batch BGJ0912 - EPA 5030 Soil MS

Blank (BGJ0912-BLK1)

Prepared & Analyzed: 10/23/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0365		"	0.0400		91.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

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 BGJ0912 - EPA 5030 Soil MS

LCS (BGJ0912-BS1)

Prepared & Analyzed: 10/23/23

Benzene	0.114	0.0020	mg/kg	0.100		114	70-130			
Toluene	0.0960	0.0050	"	0.100		96.0	70-130			
Ethylbenzene	0.0967	0.0050	"	0.100		96.7	70-130			
m,p-Xylene	0.191	0.010	"	0.200		95.6	70-130			
o-Xylene	0.0929	0.0050	"	0.100		92.9	70-130			
1,2,4-Trimethylbenzene	0.0996	0.0050	"	0.100		99.6	70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100		100	70-130			
Naphthalene	0.0709	0.0038	"	0.100		70.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0465		"	0.0400		116	50-150			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0367		"	0.0400		91.8	50-150			

Matrix Spike (BGJ0912-MS1)

Source: 2310190-01

Prepared & Analyzed: 10/23/23

Benzene	0.0978	0.0020	mg/kg	0.100	ND	97.8	70-130			
Toluene	0.0838	0.0050	"	0.100	ND	83.8	70-130			
Ethylbenzene	0.0945	0.0050	"	0.100	ND	94.5	70-130			
m,p-Xylene	0.188	0.010	"	0.200	ND	94.1	70-130			
o-Xylene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
1,2,4-Trimethylbenzene	0.0903	0.0050	"	0.100	ND	90.3	70-130			
1,3,5-Trimethylbenzene	0.0948	0.0050	"	0.100	ND	94.8	70-130			
Naphthalene	0.0811	0.0038	"	0.100	ND	81.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0445		"	0.0400		111	50-150			
Surrogate: Toluene-d8	0.0366		"	0.0400		91.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0375		"	0.0400		93.8	50-150			

Matrix Spike Dup (BGJ0912-MSD1)

Source: 2310190-01

Prepared & Analyzed: 10/23/23

Benzene	0.108	0.0020	mg/kg	0.100	ND	108	70-130	9.86	30	
Toluene	0.0874	0.0050	"	0.100	ND	87.4	70-130	4.31	30	
Ethylbenzene	0.0951	0.0050	"	0.100	ND	95.1	70-130	0.696	30	
m,p-Xylene	0.189	0.010	"	0.200	ND	94.4	70-130	0.366	30	
o-Xylene	0.0918	0.0050	"	0.100	ND	91.8	70-130	1.45	30	
1,2,4-Trimethylbenzene	0.0917	0.0050	"	0.100	ND	91.7	70-130	1.55	30	
1,3,5-Trimethylbenzene	0.0946	0.0050	"	0.100	ND	94.6	70-130	0.253	30	
Naphthalene	0.0866	0.0038	"	0.100	ND	86.6	70-130	6.55	30	
Surrogate: 1,2-Dichloroethane-d4	0.0453		"	0.0400		113	50-150			
Surrogate: Toluene-d8	0.0364		"	0.0400		91.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.6	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

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 BGJ0913 - EPA 3550A

Blank (BGJ0913-BLK1)

Prepared & Analyzed: 10/23/23

C10-C28 (DRO)	ND	50	mg/kg								
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102		30-150			

LCS (BGJ0913-BS1)

Prepared & Analyzed: 10/23/23

C10-C28 (DRO)	417	50	mg/kg	500		83.4		70-130			
Surrogate: <i>o</i> -Terphenyl	9.80		"	12.5		78.4		30-150			

Matrix Spike (BGJ0913-MS1)

Source: 2310190-01

Prepared & Analyzed: 10/23/23

C10-C28 (DRO)	450	50	mg/kg	500	8.86	88.2		70-130			
Surrogate: <i>o</i> -Terphenyl	8.89		"	12.5		71.1		30-150			

Matrix Spike Dup (BGJ0913-MSD1)

Source: 2310190-01

Prepared & Analyzed: 10/23/23

C10-C28 (DRO)	432	50	mg/kg	500	8.86	84.6		70-130	4.08	20	
Surrogate: <i>o</i> -Terphenyl	8.61		"	12.5		68.9		30-150			

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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

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 BGJ0916 - EPA 5030 Soil MS

Blank (BGJ0916-BLK1)

Prepared: 10/24/23 Analyzed: 10/26/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0271		"	0.0333		81.2	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0346		"	0.0333		104	40-150			

LCS (BGJ0916-BS1)

Prepared: 10/24/23 Analyzed: 10/26/23

Acenaphthene	0.0319	0.00500	mg/kg	0.0333		95.6	31-137			
Anthracene	0.0321	0.00500	"	0.0333		96.4	30-120			
Benzo (a) anthracene	0.0240	0.00500	"	0.0333		72.0	30-120			
Benzo (a) pyrene	0.0286	0.00500	"	0.0333		85.7	30-120			
Benzo (b) fluoranthene	0.0287	0.00500	"	0.0333		86.1	30-120			
Benzo (k) fluoranthene	0.0375	0.00500	"	0.0333		112	30-120			
Chrysene	0.0312	0.00500	"	0.0333		93.6	30-120			
Dibenz (a,h) anthracene	0.0279	0.00500	"	0.0333		83.7	30-120			
Fluoranthene	0.0359	0.00500	"	0.0333		108	30-120			
Fluorene	0.0364	0.00500	"	0.0333		109	30-120			
Indeno (1,2,3-cd) pyrene	0.0278	0.00500	"	0.0333		83.4	30-120			
Pyrene	0.0368	0.00500	"	0.0333		110	35-142			
1-Methylnaphthalene	0.0303	0.00500	"	0.0333		90.9	35-142			
2-Methylnaphthalene	0.0305	0.00500	"	0.0333		91.4	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0316		"	0.0333		94.7	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0377		"	0.0333		113	40-150			

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

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 BGJ0916 - EPA 5030 Soil MS

Matrix Spike (BGJ0916-MS1)		Source: 2310140-03			Prepared: 10/24/23 Analyzed: 10/26/23	
Acenaphthene	0.0178	0.00500	mg/kg	0.0333	ND	53.3 31-137
Anthracene	0.0183	0.00500	"	0.0333	ND	54.9 30-120
Benzo (a) anthracene	0.0115	0.00500	"	0.0333	ND	34.4 30-120
Benzo (a) pyrene	0.0138	0.00500	"	0.0333	ND	41.4 30-120
Benzo (b) fluoranthene	0.0162	0.00500	"	0.0333	ND	48.5 30-120
Benzo (k) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3 30-120
Chrysene	0.0189	0.00500	"	0.0333	ND	56.8 30-120
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	46.0 30-120
Fluoranthene	0.0208	0.00500	"	0.0333	ND	62.3 30-120
Fluorene	0.0210	0.00500	"	0.0333	ND	63.0 30-120
Indeno (1,2,3-cd) pyrene	0.0145	0.00500	"	0.0333	ND	43.4 30-120
Pyrene	0.0213	0.00500	"	0.0333	ND	63.8 35-142
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2 15-130
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.4 15-130
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0215</i>		"	<i>0.0333</i>		<i>64.6 40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0211</i>		"	<i>0.0333</i>		<i>63.4 40-150</i>

Matrix Spike Dup (BGJ0916-MSD1)		Source: 2310140-03			Prepared: 10/24/23 Analyzed: 10/26/23	
Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	49.0 31-137 8.23 30
Anthracene	0.0169	0.00500	"	0.0333	ND	50.6 30-120 8.24 30
Benzo (a) anthracene	0.0117	0.00500	"	0.0333	ND	35.0 30-120 1.74 30
Benzo (a) pyrene	0.0142	0.00500	"	0.0333	ND	42.5 30-120 2.58 30
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.6 30-120 10.7 30
Benzo (k) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.3 30-120 8.51 30
Chrysene	0.0169	0.00500	"	0.0333	ND	50.8 30-120 11.1 30
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.2 30-120 11.1 30
Fluoranthene	0.0191	0.00500	"	0.0333	ND	57.3 30-120 8.37 30
Fluorene	0.0193	0.00500	"	0.0333	ND	58.0 30-120 8.28 30
Indeno (1,2,3-cd) pyrene	0.0128	0.00500	"	0.0333	ND	38.4 30-120 12.3 30
Pyrene	0.0201	0.00500	"	0.0333	ND	60.2 35-142 5.79 30
1-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.1 15-130 3.62 50
2-Methylnaphthalene	0.0155	0.00500	"	0.0333	ND	46.4 15-130 12.1 50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0196</i>		"	<i>0.0333</i>		<i>58.7 40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0194</i>		"	<i>0.0333</i>		<i>58.1 40-150</i>

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 10:36

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 BGJ0947 - EPA 3050B

Blank (BGJ0947-BLK1)

Prepared: 10/24/23 Analyzed: 10/26/23

Boron ND 2.00 mg/L

LCS (BGJ0947-BS1)

Prepared: 10/24/23 Analyzed: 10/26/23

Boron 5.54 2.00 mg/L 5.00 111 80-120

Duplicate (BGJ0947-DUP1)

Source: 2310324-01

Prepared: 10/24/23 Analyzed: 10/26/23

Boron 0.293 2.00 mg/L 0.309 5.32 20

Matrix Spike (BGJ0947-MS1)

Source: 2310324-01

Prepared: 10/24/23 Analyzed: 10/26/23

Boron 6.97 2.00 mg/L 5.00 0.309 133 75-125 QM-07

Matrix Spike Dup (BGJ0947-MSD1)

Source: 2310324-01

Prepared: 10/24/23 Analyzed: 10/26/23

Boron 6.96 2.00 mg/L 5.00 0.309 133 75-125 0.169 25 QM-07

Summit Scientific

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0924 - EPA 3050B

Blank (BGJ0924-BLK1)

Prepared: 10/24/23 Analyzed: 10/25/23

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

LCS (BGJ0924-BS1)

Prepared: 10/24/23 Analyzed: 10/25/23

Arsenic	36.4	0.200	mg/kg wet	40.0	91.0	80-120
Barium	35.0	0.400	"	40.0	87.6	80-120
Cadmium	1.91	0.200	"	2.00	95.7	80-120
Copper	37.4	0.400	"	40.0	93.5	80-120
Lead	23.6	0.200	"	20.0	118	80-120
Nickel	37.7	0.400	"	40.0	94.1	80-120
Silver	1.93	0.0200	"	2.00	96.3	80-120
Zinc	37.7	0.400	"	40.0	94.3	80-120
Selenium	4.42	0.260	"	4.00	110	80-120

Duplicate (BGJ0924-DUP1)

Source: 2310190-01

Prepared: 10/24/23 Analyzed: 10/25/23

Arsenic	1.33	0.200	mg/kg dry	1.66	22.2	20	QR-01
Barium	36.7	0.400	"	39.8	8.18	20	
Cadmium	0.0586	0.200	"	0.0662	12.2	20	
Copper	1.54	0.400	"	1.74	11.8	20	
Lead	120	0.200	"	4.53	185	20	QR-01
Nickel	1.28	0.400	"	1.53	17.7	20	
Silver	0.0215	0.0200	"	0.00886	83.3	20	QR-01
Zinc	6.51	0.400	"	7.67	16.4	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

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 BGJ0924 - EPA 3050B

Matrix Spike (BGJ0924-MS1)

Source: 2310190-01

Prepared: 10/24/23 Analyzed: 10/25/23

Arsenic	38.3	0.200	mg/kg dry	42.2	1.66	86.8	75-125			
Barium	67.9	0.400	"	42.2	39.8	66.5	75-125			QM-07
Cadmium	1.61	0.200	"	2.11	0.0662	73.4	75-125			QM-07
Copper	27.2	0.400	"	42.2	1.74	60.3	75-125			QM-07
Lead	19.3	0.200	"	21.1	4.53	69.8	75-125			QM-07
Nickel	27.8	0.400	"	42.2	1.53	62.2	75-125			QM-07
Silver	1.55	0.0200	"	2.11	0.00886	73.1	75-125			QM-07
Zinc	31.9	0.400	"	42.2	7.67	57.3	75-125			QM-07
Selenium	4.88	0.260	"	4.22	ND	116	75-125			

Matrix Spike Dup (BGJ0924-MSD1)

Source: 2310190-01

Prepared: 10/24/23 Analyzed: 10/25/23

Arsenic	40.6	0.200	mg/kg dry	42.2	1.66	92.3	75-125	5.88	25	
Barium	68.5	0.400	"	42.2	39.8	68.0	75-125	0.933	25	QM-07
Cadmium	1.63	0.200	"	2.11	0.0662	74.0	75-125	0.781	25	QM-07
Copper	28.0	0.400	"	42.2	1.74	62.2	75-125	2.94	25	QM-07
Lead	19.6	0.200	"	21.1	4.53	71.6	75-125	1.92	25	QM-07
Nickel	28.5	0.400	"	42.2	1.53	64.0	75-125	2.72	25	QM-07
Silver	1.58	0.0200	"	2.11	0.00886	74.4	75-125	1.81	25	QM-07
Zinc	32.5	0.400	"	42.2	7.67	58.9	75-125	2.07	25	QM-07
Selenium	5.01	0.260	"	4.22	ND	119	75-125	2.50	25	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 10:36

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 BGJ0935 - 3060A Mod

Blank (BGJ0935-BLK1)

Prepared & Analyzed: 10/24/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ0935-BS1)

Prepared & Analyzed: 10/24/23

Chromium, Hexavalent 23.5 0.30 mg/kg wet 25.0 94.0 80-120

Duplicate (BGJ0935-DUP1)

Source: 2308318-01

Prepared & Analyzed: 10/24/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ0935-MS1)

Source: 2308318-01

Prepared & Analyzed: 10/24/23

Chromium, Hexavalent 30.0 0.30 mg/kg dry 30.7 ND 97.8 75-125

Matrix Spike Dup (BGJ0935-MSD1)

Source: 2308318-01

Prepared & Analyzed: 10/24/23

Chromium, Hexavalent 29.6 0.30 mg/kg dry 30.7 ND 96.6 75-125 1.23 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 10:36

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 BGJ0945 - General Preparation

Blank (BGJ0945-BLK1)

Prepared: 10/24/23 Analyzed: 10/26/23

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

LCS (BGJ0945-BS1)

Prepared: 10/24/23 Analyzed: 10/26/23

Calcium	5.45	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.33	0.0500	"	5.00	107	70-130
Sodium	5.49	0.0500	"	5.00	110	70-130

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 10:36

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 BGJ0982 - General Preparation

Duplicate (BGJ0982-DUP1)

Source: 2310324-01

Prepared & Analyzed: 10/25/23

% Solids	75.3		%		76.0			1.03	20	
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Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 10:36

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 BGJ0990 - General Preparation

Blank (BGJ0990-BLK1)

Prepared & Analyzed: 10/25/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ0990-BS1)

Prepared & Analyzed: 10/25/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 99.7 95-105

Duplicate (BGJ0990-DUP1)

Source: 2310190-01

Prepared & Analyzed: 10/25/23

Specific Conductance (EC) 0.0971 0.0100 mmhos/cm 0.0971 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 10:36

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 BGJ0989 - General Preparation

LCS (BGJ0989-BS1)

Prepared & Analyzed: 10/25/23

pH 9.01 pH Units 9.18 98.1 95-105

Duplicate (BGJ0989-DUP1)

Source: 2310190-01

Prepared & Analyzed: 10/25/23

pH 7.91 pH Units 7.91 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 10:36

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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

October 30, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2310451

Enclosed are the results of analyses for samples received by Summit Scientific on 10/24/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@9'	2310451-01	Soil	10/24/23 12:41	10/24/23 16:30
B03@10'	2310451-02	Soil	10/24/23 12:43	10/24/23 16:30
GW03	2310451-03	Water	10/24/23 12:44	10/24/23 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
2310451	

Send Data To:		Send Invoice To:
Client: Fremont Environmental	Project Manager: Paul Henchan	Company: Nable
Address:	E-Mail: Fremont Distribution List	Project Name/Location: Clyne State B36-25, Baker State B36-12
City/State/Zip:		AFE#:
Phone: 303-261-6246	Project Name: Clyne State B36-25, Baker State B36-12	PO/Billing Codes:
Sampler Name: Stanley Gilbert	Project Number: C022-187	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	
1	NO269'	10/24/23	12:41	2			X			X			X	X	X	X		
2	B03 @ 10'	I	12:43	2			X			X			X	X	X	X		
3	GW03	I	12:44	3	3				X				X				X	
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by:	Date/Time: 10/24/23 16:20	Received by: Summit North	Date/Time: 10/24/23 16:20	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time: 10/24/23 14:30	Received by:	Date/Time: 10/24/23 16:00	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 17.4	Corrected Temperature:	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2310451

Client: Fremont

Client Project ID: Chynke State B30-25,
Baker State B30-12

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

Airbill #:

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

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

Additional Comments (if any): no poly, only 3 voas

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

AS

Custodian Printed Name

10/24/23

Date/Time

10/24/23



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

N02@9'
2310451-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ0963	10/24/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0453	113 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0372	92.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ0964	"	10/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.57	68.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 11:14

N02@9'
2310451-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0969	10/25/23	10/25/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0146	43.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0974	10/25/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/24/23 12:41**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

N02@9'
2310451-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.35	0.200	mg/kg dry	1	BGJ0968	10/25/23	10/26/23	EPA 6020B
Barium	159	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.71	0.400	"	"	"	"	"	"
Lead	11.5	0.200	"	"	"	"	"	"
Nickel	2.43	0.400	"	"	"	"	"	"
Silver	0.0566	0.0200	"	"	"	"	"	"
Zinc	9.62	0.400	"	"	"	"	"	"
Selenium	3.14	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0996	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.3	0.0500	mg/L dry	1	BGJ0966	10/24/23	10/27/23	EPA 6020B	
Magnesium	9.11	0.0500	"	"	"	"	"	"	
Sodium	76.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.02	0.00100	units	1	BGJ1110	10/27/23	10/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/23 12:41**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 11:14

N02@9'
2310451-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.4	%	1	BGJ0973	10/25/23	10/25/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.424	0.0100	mmhos/cm	1	BGJ0986	10/25/23	10/25/23	EPA 120.1	

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

Date Sampled: **10/24/23 12:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BGJ0985	10/25/23	10/25/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

B03@10'
2310451-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ0963	10/24/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0464	116 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ0964	"	10/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.32	58.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

B03@10'
2310451-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0969	10/25/23	10/25/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	55.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0974	10/25/23	10/26/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Clyncke State B36-25, Baker State B36-12

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10/30/23 11:14

B03@10'
2310451-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.810	0.200	mg/kg dry	1	BGJ0968	10/25/23	10/26/23	EPA 6020B	
Barium	53.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.89	0.400	"	"	"	"	"	"	
Lead	3.51	0.200	"	"	"	"	"	"	
Nickel	1.60	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.29	0.400	"	"	"	"	"	"	
Selenium	2.79	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/24/23 12:43

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0996	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/24/23 12:43

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.8	0.0500	mg/L dry	1	BGJ0966	10/24/23	10/27/23	EPA 6020B	
Magnesium	18.7	0.0500	"	"	"	"	"	"	
Sodium	73.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/24/23 12:43

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.16	0.00100	units	1	BGJ1110	10/27/23	10/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
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B03@10'
2310451-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.4		%	1	BGJ0973	10/25/23	10/25/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.634	0.0100	mmhos/cm	1	BGJ0986	10/25/23	10/25/23	EPA 120.1	

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

Date Sampled: **10/24/23 12:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BGJ0985	10/25/23	10/25/23	EPA 9045D	

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

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 10/30/23 11:14

GW03
2310451-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/23 12:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BGJ0965	10/24/23	10/25/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	3.0	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	8.7	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/24/23 12:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	11.9	89.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.6	110 %	21-167		"	"	"	"	

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGJ0963 - EPA 5030 Soil MS

Blank (BGJ0963-BLK1)

Prepared & Analyzed: 10/24/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0453		"	0.0400		113	50-150			
<i>Surrogate: Toluene-d8</i>	0.0389		"	0.0400		97.3	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0393		"	0.0400		98.2	50-150			

LCS (BGJ0963-BS1)

Prepared & Analyzed: 10/24/23

Benzene	0.111	0.0020	mg/kg	0.100		111	70-130			
Toluene	0.0918	0.0050	"	0.100		91.8	70-130			
Ethylbenzene	0.0989	0.0050	"	0.100		98.9	70-130			
m,p-Xylene	0.192	0.010	"	0.200		96.2	70-130			
o-Xylene	0.0954	0.0050	"	0.100		95.4	70-130			
1,2,4-Trimethylbenzene	0.0976	0.0050	"	0.100		97.6	70-130			
1,3,5-Trimethylbenzene	0.0972	0.0050	"	0.100		97.2	70-130			
Naphthalene	0.0787	0.0038	"	0.100		78.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0450		"	0.0400		112	50-150			
<i>Surrogate: Toluene-d8</i>	0.0376		"	0.0400		94.1	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0395		"	0.0400		98.8	50-150			

Matrix Spike (BGJ0963-MS1)

Source: 2310447-01

Prepared: 10/24/23 Analyzed: 10/25/23

Benzene	0.102	0.0020	mg/kg	0.100	ND	102	70-130			
Toluene	0.0826	0.0050	"	0.100	ND	82.6	70-130			
Ethylbenzene	0.0873	0.0050	"	0.100	ND	87.3	70-130			
m,p-Xylene	0.170	0.010	"	0.200	ND	85.1	70-130			
o-Xylene	0.0820	0.0050	"	0.100	ND	82.0	70-130			
1,2,4-Trimethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	70-130			
1,3,5-Trimethylbenzene	0.0868	0.0050	"	0.100	ND	86.8	70-130			
Naphthalene	0.0795	0.0038	"	0.100	ND	79.5	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0474		"	0.0400		119	50-150			
<i>Surrogate: Toluene-d8</i>	0.0380		"	0.0400		95.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400		"	0.0400		100	50-150			

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

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 BGJ0963 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ0963-MSD1)

Source: 2310447-01

Prepared: 10/24/23 Analyzed: 10/25/23

Benzene	0.102	0.0020	mg/kg	0.100	ND	102	70-130	0.324	30	
Toluene	0.0844	0.0050	"	0.100	ND	84.4	70-130	2.16	30	
Ethylbenzene	0.0892	0.0050	"	0.100	ND	89.2	70-130	2.24	30	
m,p-Xylene	0.173	0.010	"	0.200	ND	86.6	70-130	1.71	30	
o-Xylene	0.0830	0.0050	"	0.100	ND	83.0	70-130	1.24	30	
1,2,4-Trimethylbenzene	0.0895	0.0050	"	0.100	ND	89.5	70-130	3.72	30	
1,3,5-Trimethylbenzene	0.0893	0.0050	"	0.100	ND	89.3	70-130	2.86	30	
Naphthalene	0.0819	0.0038	"	0.100	ND	81.9	70-130	2.97	30	
Surrogate: 1,2-Dichloroethane-d4	0.0481		"	0.0400		120	50-150			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	50-150			

Batch BGJ0965 - EPA 5030 Water MS

Blank (BGJ0965-BLK1)

Prepared: 10/24/23 Analyzed: 10/25/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.8		"	13.3		88.8	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	21-167			

LCS (BGJ0965-BS1)

Prepared: 10/24/23 Analyzed: 10/25/23

Benzene	42.8	1.0	ug/l	33.3		128	51-132			
Toluene	39.8	1.0	"	33.3		119	51-138			
Ethylbenzene	42.2	1.0	"	33.3		127	58-146			
m,p-Xylene	78.1	2.0	"	66.7		117	57-144			
o-Xylene	37.6	1.0	"	33.3		113	53-146			
Naphthalene	24.8	1.0	"	33.3		74.4	70-130			
1,2,4-Trimethylbenzene	36.9	1.0	"	33.3		111	70-130			
1,3,5-Trimethylbenzene	37.6	1.0	"	33.3		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	11.6		"	13.3		86.9	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	21-167			

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 11:14

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 BGJ0965 - EPA 5030 Water MS

LCS Dup (BGJ0965-BSD1)

Prepared: 10/24/23 Analyzed: 10/25/23

Benzene	42.4	1.0	ug/l	33.3	127	51-132	0.892	20	
Toluene	39.7	1.0	"	33.3	119	51-138	0.251	20	
Ethylbenzene	41.4	1.0	"	33.3	124	58-146	1.94	20	
m,p-Xylene	77.3	2.0	"	66.7	116	57-144	1.07	20	
o-Xylene	37.3	1.0	"	33.3	112	53-146	0.827	20	
Naphthalene	27.6	1.0	"	33.3	82.8	70-130	10.7	20	
1,2,4-Trimethylbenzene	36.8	1.0	"	33.3	110	70-130	0.299	20	
1,3,5-Trimethylbenzene	37.4	1.0	"	33.3	112	70-130	0.667	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.6</i>		<i>"</i>	<i>13.3</i>	<i>86.8</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.6</i>		<i>"</i>	<i>13.3</i>	<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>	<i>100</i>	<i>21-167</i>			

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Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

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 BGJ0964 - EPA 3550A

Blank (BGJ0964-BLK1)

Prepared & Analyzed: 10/24/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5		119		30-150			

LCS (BGJ0964-BS1)

Prepared & Analyzed: 10/24/23

C10-C28 (DRO)	486	50	mg/kg	500		97.3		70-130			
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5		108		30-150			

Matrix Spike (BGJ0964-MS1)

Source: 2310447-01

Prepared & Analyzed: 10/24/23

C10-C28 (DRO)	454	50	mg/kg	500	15.6	87.6		70-130			
Surrogate: <i>o</i> -Terphenyl	9.75		"	12.5		78.0		30-150			

Matrix Spike Dup (BGJ0964-MSD1)

Source: 2310447-01

Prepared: 10/24/23 Analyzed: 10/25/23

C10-C28 (DRO)	478	50	mg/kg	500	15.6	92.4		70-130	5.14	20	
Surrogate: <i>o</i> -Terphenyl	10.0		"	12.5		80.4		30-150			

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

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 BGJ0969 - EPA 5030 Soil MS

Blank (BGJ0969-BLK1)

Prepared & Analyzed: 10/25/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0357</i>		"	<i>0.0333</i>		<i>107</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0363</i>		"	<i>0.0333</i>		<i>109</i>		<i>40-150</i>		

LCS (BGJ0969-BS1)

Prepared & Analyzed: 10/25/23

Acenaphthene	0.0292	0.00500	mg/kg	0.0333		87.6		31-137		
Anthracene	0.0300	0.00500	"	0.0333		90.0		30-120		
Benzo (a) anthracene	0.0294	0.00500	"	0.0333		88.1		30-120		
Benzo (a) pyrene	0.0299	0.00500	"	0.0333		89.6		30-120		
Benzo (b) fluoranthene	0.0306	0.00500	"	0.0333		91.7		30-120		
Benzo (k) fluoranthene	0.0296	0.00500	"	0.0333		88.7		30-120		
Chrysene	0.0305	0.00500	"	0.0333		91.6		30-120		
Dibenz (a,h) anthracene	0.0276	0.00500	"	0.0333		82.9		30-120		
Fluoranthene	0.0301	0.00500	"	0.0333		90.3		30-120		
Fluorene	0.0293	0.00500	"	0.0333		87.9		30-120		
Indeno (1,2,3-cd) pyrene	0.0219	0.00500	"	0.0333		65.7		30-120		
Pyrene	0.0307	0.00500	"	0.0333		92.0		35-142		
1-Methylnaphthalene	0.0296	0.00500	"	0.0333		89.0		35-142		
2-Methylnaphthalene	0.0296	0.00500	"	0.0333		88.8		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0298</i>		"	<i>0.0333</i>		<i>89.3</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0304</i>		"	<i>0.0333</i>		<i>91.2</i>		<i>40-150</i>		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

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 BGJ0969 - EPA 5030 Soil MS

Matrix Spike (BGJ0969-MS1)	Source: 2310447-01			Prepared & Analyzed: 10/25/23								
Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.3	31-137					
Anthracene	0.0175	0.00500	"	0.0333	ND	52.4	30-120					
Benzo (a) anthracene	0.0169	0.00500	"	0.0333	ND	50.6	30-120					
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	53.9	30-120					
Benzo (b) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.4	30-120					
Benzo (k) fluoranthene	0.0169	0.00500	"	0.0333	ND	50.8	30-120					
Chrysene	0.0177	0.00500	"	0.0333	ND	53.2	30-120					
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.4	30-120					
Fluoranthene	0.0158	0.00500	"	0.0333	ND	47.4	30-120					
Fluorene	0.0222	0.00500	"	0.0333	ND	66.6	30-120					
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.3	30-120					
Pyrene	0.0165	0.00500	"	0.0333	ND	49.6	35-142					
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.3	15-130					
2-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.8	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0168</i>		<i>"</i>	<i>0.0333</i>		<i>50.3</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 (BGJ0969-MSD1)	Source: 2310447-01			Prepared & Analyzed: 10/25/23								
Acenaphthene	0.0144	0.00500	mg/kg	0.0333	ND	43.1	31-137	24.8	30			
Anthracene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	9.22	30			
Benzo (a) anthracene	0.0182	0.00500	"	0.0333	ND	54.7	30-120	7.81	30			
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	3.40	30			
Benzo (b) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	8.93	30			
Benzo (k) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.7	30-120	5.54	30			
Chrysene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	7.06	30			
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.5	30-120	0.180	30			
Fluoranthene	0.0187	0.00500	"	0.0333	ND	56.2	30-120	17.0	30			
Fluorene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	34.7	30			QR-02
Indeno (1,2,3-cd) pyrene	0.0169	0.00500	"	0.0333	ND	50.6	30-120	6.87	30			
Pyrene	0.0181	0.00500	"	0.0333	ND	54.3	35-142	9.03	30			
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130	20.6	50			
2-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.5	15-130	19.5	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0198</i>		<i>"</i>	<i>0.0333</i>		<i>59.5</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0189</i>		<i>"</i>	<i>0.0333</i>		<i>56.8</i>	<i>40-150</i>					

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ0968 - EPA 3050B

Blank (BGJ0968-BLK1)

Prepared: 10/25/23 Analyzed: 10/26/23

Cadmium	ND	0.200	mg/kg wet							
Lead	ND	0.200	"							

LCS (BGJ0968-BS1)

Prepared: 10/25/23 Analyzed: 10/26/23

Cadmium	2.10	0.200	mg/kg wet	2.00	105	80-120			
Lead	21.8	0.200	"	20.0	109	80-120			

Duplicate (BGJ0968-DUP1)

Source: 2308318-01

Prepared: 10/25/23 Analyzed: 10/26/23

Cadmium	0.156	0.200	mg/kg dry		0.155		0.316	20
Lead	8.16	0.200	"		7.98		2.29	20

Matrix Spike (BGJ0968-MS1)

Source: 2308318-01

Prepared: 10/25/23 Analyzed: 10/26/23

Cadmium	2.22	0.200	mg/kg dry	2.46	0.155	84.0	75-125
Lead	27.6	0.200	"	24.6	7.98	80.1	75-125

Matrix Spike Dup (BGJ0968-MSD1)

Source: 2308318-01

Prepared: 10/25/23 Analyzed: 10/26/23

Cadmium	2.21	0.200	mg/kg dry	2.46	0.155	83.8	75-125	0.244	25
Lead	27.7	0.200	"	24.6	7.98	80.5	75-125	0.353	25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/30/23 11:14

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 BGJ0973 - General Preparation

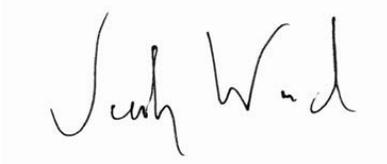
Duplicate (BGJ0973-DUP1)

Source: 2310292-04

Prepared & Analyzed: 10/25/23

% Solids	94.1		%		94.0			0.0636	20	
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Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/30/23 11:14

Notes and Definitions

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

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

October 31, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2310494

Enclosed are the results of analyses for samples received by Summit Scientific on 10/25/23 18:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S02@9'	2310494-01	Soil	10/25/23 12:06	10/25/23 18:11
B04@10'	2310494-02	Soil	10/25/23 12:08	10/25/23 18:11
B05@10'	2310494-03	Soil	10/25/23 12:53	10/25/23 18:11
GW04	2310494-04	Water	10/25/23 12:52	10/25/23 18:11
GW05	2310494-05	Water	10/25/23 12:54	10/25/23 18:11

Summit Scientific

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

Lab ID	Page 1 of 1
2310494	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: <i>Noble</i>
Address:		E-Mail: Fremont Distribution List	Project Name/Location: <i>Clynke State B36-25, Baker State B36-12</i>
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: <i>Clynke State B36-25, Baker State B36-12</i>	PO/Billing Codes:
Sampler Name: Stanley Gilbert		Project Number: <i>CO22-187</i>	Contact: <i>Dan Peterson</i>

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD		
1	<i>S02 @ 9'</i>	<i>10/25/23</i>	<i>12:06</i>	<i>2</i>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									
2	<i>B04 @ 10'</i>		<i>12:08</i>	<i>1</i>									<input checked="" type="checkbox"/>									
3	<i>B05 @ 10'</i>		<i>12:53</i>	<i>1</i>									<input checked="" type="checkbox"/>									
4	<i>GW04</i>		<i>12:52</i>	<i>3</i>	<i>3</i>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>									
5	<i>GW05</i>		<i>12:54</i>	<i>3</i>	<i>3</i>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>									
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <i>[Signature]</i>	Date/Time: <i>10/25/23 18:09</i>	Received by: <i>[Signature]</i>	Date/Time: <i>10/25/23 18:11</i>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <i>17.2°C</i>	Corrected Temperature	IR gun #: <i>[Signature]</i>	HNO3 lot #:			

S₂

S2 Work Order# 2310494

Sample Receipt Checklist

Client: ~~Cherokee State~~ Fremont Env. Client Project ID: Cherokee State B36-25 Baker

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: State B36-12

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

Temp (°C) 17.20 Thermometer # 02

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

GAC
Custodian Printed Name

10/25/23 10:11
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

S02@9'
2310494-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ1021	10/25/23	10/25/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0458	114 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ1022	10/25/23	10/25/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	17.1	137 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

S02@9'
2310494-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1046	10/26/23	10/27/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	61.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1055	10/26/23	10/28/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/25/23 12:06**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

S02@9'
2310494-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.21	0.200	mg/kg dry	1	BGJ1054	10/26/23	10/27/23	EPA 6020B
Barium	101	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.77	0.400	"	"	"	"	"	"
Lead	10.0	0.200	"	"	"	"	"	"
Nickel	2.43	0.400	"	"	"	"	"	"
Silver	0.0528	0.0200	"	"	"	"	"	"
Zinc	8.75	0.400	"	"	"	"	"	"
Selenium	2.36	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1052	10/26/23	10/27/23	EPA 7196A	

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

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.9	0.0500	mg/L dry	1	BGJ1024	10/25/23	10/27/23	EPA 6020B	
Magnesium	10.3	0.0500	"	"	"	"	"	"	
Sodium	42.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.65	0.00100	units	1	BGJ1188	10/30/23	10/30/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/25/23 12:06**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

S02@9'
2310494-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.8	%	1	BGJ1113	10/27/23	10/27/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.350	0.0100	mmhos/cm	1	BGJ1041	10/26/23	10/26/23	EPA 120.1	

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

Date Sampled: **10/25/23 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BGJ1042	10/26/23	10/26/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

B04@10'
2310494-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ1021	10/25/23	10/25/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	23	0.50	"	"	"	"	10/25/23	"	

Date Sampled: **10/25/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0435	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	10/25/23	"	
Surrogate: 4-Bromofluorobenzene	0.0460	115 %	50-150		"	"	10/25/23	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/25/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ1022	10/25/23	10/26/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/25/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.4	107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

B04@10'
2310494-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/25/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1046	10/26/23	10/27/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0221	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: **10/25/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	64.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/25/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1055	10/26/23	10/28/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/25/23 12:08**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

B04@10'
2310494-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.02	0.200	mg/kg dry	1	BGJ1054	10/26/23	10/27/23	EPA 6020B
Barium	72.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.06	0.400	"	"	"	"	"	"
Lead	4.85	0.200	"	"	"	"	"	"
Nickel	1.57	0.400	"	"	"	"	"	"
Silver	0.0313	0.0200	"	"	"	"	"	"
Zinc	6.56	0.400	"	"	"	"	"	"
Selenium	2.04	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/25/23 12:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1052	10/26/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/25/23 12:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.3	0.0500	mg/L dry	1	BGJ1024	10/25/23	10/27/23	EPA 6020B	
Magnesium	15.9	0.0500	"	"	"	"	"	"	
Sodium	35.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/25/23 12:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.12	0.00100	units	1	BGJ1188	10/30/23	10/30/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/25/23 12:08

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

B04@10'
2310494-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.3	%	1	BGJ1113	10/27/23	10/27/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/25/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.443	0.0100	mmhos/cm	1	BGJ1041	10/26/23	10/26/23	EPA 120.1	

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

Date Sampled: **10/25/23 12:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BGJ1042	10/26/23	10/26/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

B05@10'
2310494-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/23 12:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ1021	10/25/23	10/25/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/25/23 12:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0438	110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/25/23 12:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ1022	10/25/23	10/26/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/25/23 12:53**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

B05@10'
2310494-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/25/23 12:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1046	10/26/23	10/27/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.00510	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0116	0.00500	"	"	"	"	"	"	

Date Sampled: **10/25/23 12:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/25/23 12:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1055	10/26/23	10/28/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/25/23 12:53**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

B05@10'
2310494-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.06	0.200	mg/kg dry	1	BGJ1054	10/26/23	10/27/23	EPA 6020B
Barium	116	0.400	"	"	"	"	"	"
Cadmium	0.222	0.200	"	"	"	"	"	"
Copper	4.09	0.400	"	"	"	"	"	"
Lead	14.4	0.200	"	"	"	"	"	"
Nickel	2.19	0.400	"	"	"	"	"	"
Silver	0.121	0.0200	"	"	"	"	"	"
Zinc	11.4	0.400	"	"	"	"	"	"
Selenium	2.43	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/25/23 12:53

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1052	10/26/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/25/23 12:53

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.1	0.0500	mg/L dry	1	BGJ1024	10/25/23	10/27/23	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	47.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/25/23 12:53

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.69	0.00100	units	1	BGJ1188	10/30/23	10/30/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/25/23 12:53

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

B05@10'
2310494-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.3	%	1	BGJ1113	10/27/23	10/27/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/25/23 12:53**

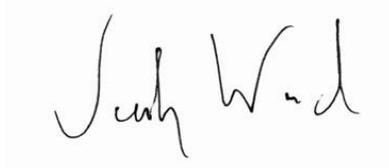
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.418	0.0100	mmhos/cm	1	BGJ1041	10/26/23	10/26/23	EPA 120.1	

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

Date Sampled: **10/25/23 12:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BGJ1042	10/26/23	10/26/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

GW04
2310494-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/23 12:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BGJ1031	10/25/23	10/26/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/25/23 12:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	11.9	89.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.5	94.0 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

GW05
2310494-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/25/23 12:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGJ1031	10/25/23	10/26/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	1.3	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	17	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	3.8	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **10/25/23 12:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	12.3	92.0 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	15.2	114 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	22.2	167 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

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 BGJ1021 - EPA 5030 Soil MS

Blank (BGJ1021-BLK1)

Prepared: 10/25/23 Analyzed: 10/26/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0412		"	0.0400		103	50-150			
<i>Surrogate: Toluene-d8</i>	0.0409		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0395		"	0.0400		98.7	50-150			

LCS (BGJ1021-BS1)

Prepared: 10/25/23 Analyzed: 10/26/23

Benzene	0.105	0.0020	mg/kg	0.100		105	70-130			
Toluene	0.0993	0.0050	"	0.100		99.3	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.200	0.010	"	0.200		99.8	70-130			
o-Xylene	0.0983	0.0050	"	0.100		98.3	70-130			
1,2,4-Trimethylbenzene	0.0990	0.0050	"	0.100		99.0	70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100		100	70-130			
Naphthalene	0.0928	0.0038	"	0.100		92.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0406		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0414		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0389		"	0.0400		97.3	50-150			

Matrix Spike (BGJ1021-MS1)

Source: 2310399-01

Prepared: 10/25/23 Analyzed: 10/26/23

Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130			
Toluene	0.0941	0.0050	"	0.100	ND	94.1	70-130			
Ethylbenzene	0.0985	0.0050	"	0.100	ND	98.5	70-130			
m,p-Xylene	0.184	0.010	"	0.200	ND	92.1	70-130			
o-Xylene	0.0897	0.0050	"	0.100	ND	89.7	70-130			
1,2,4-Trimethylbenzene	0.0826	0.0050	"	0.100	ND	82.6	70-130			
1,3,5-Trimethylbenzene	0.0849	0.0050	"	0.100	ND	84.9	70-130			
Naphthalene	0.0787	0.0038	"	0.100	ND	78.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0413		"	0.0400		103	50-150			
<i>Surrogate: Toluene-d8</i>	0.0407		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0382		"	0.0400		95.6	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

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		

Batch BGJ1021 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ1021-MSD1)

Source: 2310399-01

Prepared: 10/25/23 Analyzed: 10/26/23

Benzene	0.0987	0.0020	mg/kg	0.100	ND	98.7	70-130	4.31	30
Toluene	0.0896	0.0050	"	0.100	ND	89.6	70-130	4.93	30
Ethylbenzene	0.0920	0.0050	"	0.100	ND	92.0	70-130	6.77	30
m,p-Xylene	0.172	0.010	"	0.200	ND	85.8	70-130	7.10	30
o-Xylene	0.0828	0.0050	"	0.100	ND	82.8	70-130	7.97	30
1,2,4-Trimethylbenzene	0.0757	0.0050	"	0.100	ND	75.7	70-130	8.75	30
1,3,5-Trimethylbenzene	0.0772	0.0050	"	0.100	ND	77.2	70-130	9.52	30
Naphthalene	0.0724	0.0038	"	0.100	ND	72.4	70-130	8.34	30
Surrogate: 1,2-Dichloroethane-d4	0.0426		"	0.0400		107	50-150		
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150		
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	50-150		

Batch BGJ1031 - EPA 5030 Water MS

Blank (BGJ1031-BLK1)

Prepared: 10/25/23 Analyzed: 10/26/23

Benzene	ND	1.0	ug/l						
Toluene	ND	1.0	"						
Ethylbenzene	ND	1.0	"						
Xylenes (total)	ND	2.0	"						
Naphthalene	ND	1.0	"						
1,2,4-Trimethylbenzene	ND	1.0	"						
1,3,5-Trimethylbenzene	ND	1.0	"						
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		112	23-173		
Surrogate: Toluene-d8	13.1		"	13.3		98.2	20-170		
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.3	21-167		

LCS (BGJ1031-BS1)

Prepared: 10/25/23 Analyzed: 10/26/23

Benzene	32.9	1.0	ug/l	33.3		98.6	51-132		
Toluene	31.2	1.0	"	33.3		93.7	51-138		
Ethylbenzene	32.4	1.0	"	33.3		97.1	58-146		
m,p-Xylene	63.7	2.0	"	66.7		95.5	57-144		
o-Xylene	31.1	1.0	"	33.3		93.3	53-146		
Naphthalene	28.5	1.0	"	33.3		85.4	70-130		
1,2,4-Trimethylbenzene	31.4	1.0	"	33.3		94.1	70-130		
1,3,5-Trimethylbenzene	31.5	1.0	"	33.3		94.6	70-130		
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		100	23-173		
Surrogate: Toluene-d8	13.2		"	13.3		99.0	20-170		
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	21-167		

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PO Box 1289
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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

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 BGJ1031 - EPA 5030 Water MS

Matrix Spike (BGJ1031-MS1)

Source: 2310494-04

Prepared: 10/25/23 Analyzed: 10/26/23

Benzene	37.9	1.0	ug/l	33.3	ND	114	34-141			
Toluene	34.6	1.0	"	33.3	ND	104	27-151			
Ethylbenzene	32.7	1.0	"	33.3	ND	98.2	29-160			
m,p-Xylene	63.7	2.0	"	66.7	ND	95.5	20-166			
o-Xylene	32.0	1.0	"	33.3	ND	96.1	33-159			
Naphthalene	31.2	1.0	"	33.3	ND	93.7	70-130			
1,2,4-Trimethylbenzene	24.5	1.0	"	33.3	ND	73.5	70-130			
1,3,5-Trimethylbenzene	23.4	1.0	"	33.3	ND	70.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.2	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.1	21-167			

Matrix Spike Dup (BGJ1031-MSD1)

Source: 2310494-04

Prepared: 10/25/23 Analyzed: 10/26/23

Benzene	32.6	1.0	ug/l	33.3	ND	97.9	34-141	14.9	30
Toluene	29.9	1.0	"	33.3	ND	89.6	27-151	14.7	30
Ethylbenzene	28.3	1.0	"	33.3	ND	84.9	29-160	14.5	30
m,p-Xylene	55.1	2.0	"	66.7	ND	82.6	20-166	14.5	30
o-Xylene	28.3	1.0	"	33.3	ND	84.9	33-159	12.4	30
Naphthalene	32.3	1.0	"	33.3	ND	96.9	70-130	3.37	30
1,2,4-Trimethylbenzene	32.2	1.0	"	33.3	ND	96.5	70-130	27.1	30
1,3,5-Trimethylbenzene	31.1	1.0	"	33.3	ND	93.3	70-130	28.4	30
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		112	23-173		
Surrogate: Toluene-d8	18.4		"	13.3		138	20-170		
Surrogate: 4-Bromofluorobenzene	20.2		"	13.3		152	21-167		

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

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 BGJ1022 - EPA 3550A

Blank (BGJ1022-BLK1)

Prepared: 10/25/23 Analyzed: 10/26/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	16.1		"	12.5		128	30-150				

LCS (BGJ1022-BS1)

Prepared: 10/25/23 Analyzed: 10/26/23

C10-C28 (DRO)	473	50	mg/kg	500		94.7	70-130				
Surrogate: <i>o</i> -Terphenyl	14.1		"	12.5		113	30-150				

Matrix Spike (BGJ1022-MS1)

Source: 2310399-01

Prepared: 10/25/23 Analyzed: 10/26/23

C10-C28 (DRO)	506	50	mg/kg	500	24.3	96.4	70-130				
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		105	30-150				

Matrix Spike Dup (BGJ1022-MSD1)

Source: 2310399-01

Prepared: 10/25/23 Analyzed: 10/26/23

C10-C28 (DRO)	457	50	mg/kg	500	24.3	86.6	70-130	10.2	20		
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5		108	30-150				

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

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 BGJ1046 - EPA 5030 Soil MS

Blank (BGJ1046-BLK1)

Prepared & Analyzed: 10/26/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0229		"	0.0333		68.6	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0305		"	0.0333		91.6	40-150			

LCS (BGJ1046-BS1)

Prepared & Analyzed: 10/26/23

Acenaphthene	0.0297	0.00500	mg/kg	0.0333		89.0	31-137			
Anthracene	0.0313	0.00500	"	0.0333		93.9	30-120			
Benzo (a) anthracene	0.0297	0.00500	"	0.0333		89.2	30-120			
Benzo (a) pyrene	0.0289	0.00500	"	0.0333		86.8	30-120			
Benzo (b) fluoranthene	0.0307	0.00500	"	0.0333		92.2	30-120			
Benzo (k) fluoranthene	0.0326	0.00500	"	0.0333		97.7	30-120			
Chrysene	0.0327	0.00500	"	0.0333		98.2	30-120			
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333		66.0	30-120			
Fluoranthene	0.0324	0.00500	"	0.0333		97.1	30-120			
Fluorene	0.0335	0.00500	"	0.0333		101	30-120			
Indeno (1,2,3-cd) pyrene	0.0309	0.00500	"	0.0333		92.8	30-120			
Pyrene	0.0348	0.00500	"	0.0333		105	35-142			
1-Methylnaphthalene	0.0276	0.00500	"	0.0333		82.9	35-142			
2-Methylnaphthalene	0.0311	0.00500	"	0.0333		93.3	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0257		"	0.0333		77.0	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0319		"	0.0333		95.6	40-150			

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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

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 BGJ1046 - EPA 5030 Soil MS

Matrix Spike (BGJ1046-MS1)

Source: 2310472-01

Prepared & Analyzed: 10/26/23

Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	60.8	31-137			
Anthracene	0.0190	0.00500	"	0.0333	ND	57.0	30-120			
Benzo (a) anthracene	0.0196	0.00500	"	0.0333	ND	58.7	30-120			
Benzo (a) pyrene	0.0173	0.00500	"	0.0333	ND	51.8	30-120			
Benzo (b) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120			
Benzo (k) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	30-120			
Chrysene	0.0200	0.00500	"	0.0333	ND	59.9	30-120			
Dibenz (a,h) anthracene	0.0154	0.00500	"	0.0333	ND	46.1	30-120			
Fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	30-120			
Fluorene	0.0222	0.00500	"	0.0333	ND	66.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0220	0.00500	"	0.0333	ND	66.0	30-120			
Pyrene	0.0211	0.00500	"	0.0333	ND	63.2	35-142			
1-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.8	15-130			
2-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.4	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0149		"	0.0333		44.8	40-150			
Surrogate: Fluoranthene-d10	0.0197		"	0.0333		59.2	40-150			

Matrix Spike Dup (BGJ1046-MSD1)

Source: 2310472-01

Prepared & Analyzed: 10/26/23

Acenaphthene	0.0158	0.00500	mg/kg	0.0333	ND	47.3	31-137	25.0	30
Anthracene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	6.75	30
Benzo (a) anthracene	0.0174	0.00500	"	0.0333	ND	52.1	30-120	11.8	30
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	11.8	30
Benzo (b) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.2	30-120	11.3	30
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.1	30-120	12.9	30
Chrysene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	13.6	30
Dibenz (a,h) anthracene	0.0140	0.00500	"	0.0333	ND	42.1	30-120	8.97	30
Fluoranthene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	12.0	30
Fluorene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	10.8	30
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	9.68	30
Pyrene	0.0189	0.00500	"	0.0333	ND	56.6	35-142	11.1	30
1-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.4	15-130	0.760	50
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.1	15-130	2.28	50
Surrogate: 2-Methylnaphthalene-d10	0.0136		"	0.0333		40.7	40-150		
Surrogate: Fluoranthene-d10	0.0175		"	0.0333		52.5	40-150		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

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 BGJ1055 - EPA 3050B

Blank (BGJ1055-BLK1)

Prepared: 10/26/23 Analyzed: 10/27/23

Boron ND 2.00 mg/L

LCS (BGJ1055-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

Boron 4.83 2.00 mg/L 5.00 96.5 80-120

Duplicate (BGJ1055-DUP1)

Source: 2310456-02

Prepared: 10/26/23 Analyzed: 10/27/23

Boron 0.852 2.00 mg/L 0.726 16.0 20

Matrix Spike (BGJ1055-MS1)

Source: 2310456-02

Prepared: 10/26/23 Analyzed: 10/27/23

Boron 5.68 2.00 mg/L 5.00 0.726 99.1 75-125

Matrix Spike Dup (BGJ1055-MSD1)

Source: 2310456-02

Prepared: 10/26/23 Analyzed: 10/28/23

Boron 5.90 2.00 mg/L 5.00 0.726 103 75-125 3.71 25

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 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ1054 - EPA 3050B

Blank (BGJ1054-BLK1)

Prepared: 10/26/23 Analyzed: 10/27/23

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

LCS (BGJ1054-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

Arsenic	37.2	0.200	mg/kg wet	40.0	93.0	80-120
Barium	35.8	0.400	"	40.0	89.4	80-120
Cadmium	1.80	0.200	"	2.00	90.1	80-120
Copper	37.6	0.400	"	40.0	94.0	80-120
Lead	18.4	0.200	"	20.0	92.0	80-120
Nickel	36.7	0.400	"	40.0	91.6	80-120
Silver	1.81	0.0200	"	2.00	90.3	80-120
Zinc	37.8	0.400	"	40.0	94.5	80-120
Selenium	4.57	0.260	"	4.00	114	80-120

LCS (BGJ1054-BS2)

Prepared: 10/26/23 Analyzed: 10/27/23

Arsenic	34.4	0.200	mg/kg wet	40.0	86.0	80-120
Barium	39.3	0.400	"	40.0	98.3	80-120
Cadmium	1.95	0.200	"	2.00	97.6	80-120
Copper	34.8	0.400	"	40.0	86.9	80-120
Lead	16.2	0.200	"	20.0	81.2	80-120
Nickel	34.2	0.400	"	40.0	85.6	80-120
Silver	1.98	0.0200	"	2.00	99.2	80-120
Zinc	34.3	0.400	"	40.0	85.7	80-120
Selenium	4.61	0.260	"	4.00	115	80-120

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

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 BGJ1054 - EPA 3050B

LCS (BGJ1054-BS3)

Prepared: 10/26/23 Analyzed: 10/27/23

Arsenic	33.5	0.200	mg/kg wet	40.0		83.8	80-120			
Barium	39.5	0.400	"	40.0		98.7	80-120			
Cadmium	1.60	0.200	"	2.00		80.2	80-120			
Copper	33.5	0.400	"	40.0		83.7	80-120			
Lead	16.1	0.200	"	20.0		80.5	80-120			
Nickel	36.8	0.400	"	40.0		92.1	80-120			
Silver	1.99	0.0200	"	2.00		99.4	80-120			
Zinc	34.0	0.400	"	40.0		84.9	80-120			
Selenium	4.47	0.260	"	4.00		112	80-120			

LCS (BGJ1054-BS4)

Prepared: 10/26/23 Analyzed: 10/27/23

Arsenic	37.1	0.200	mg/kg wet	40.0		92.8	80-120			
Barium	34.3	0.400	"	40.0		85.8	80-120			
Cadmium	1.73	0.200	"	2.00		86.7	80-120			
Copper	37.1	0.400	"	40.0		92.7	80-120			
Lead	17.8	0.200	"	20.0		89.1	80-120			
Nickel	36.2	0.400	"	40.0		90.4	80-120			
Silver	1.73	0.0200	"	2.00		86.6	80-120			
Zinc	37.5	0.400	"	40.0		93.8	80-120			
Selenium	4.78	0.260	"	4.00		120	80-120			

Duplicate (BGJ1054-DUP1)

Source: 2310420-01

Prepared: 10/26/23 Analyzed: 10/27/23

Arsenic	0.588	0.200	mg/kg dry		0.659		11.4	20		
Barium	58.7	0.400	"		99.5		51.6	20		QR-04
Cadmium	0.0474	0.200	"		0.0466		1.79	20		
Copper	1.38	0.400	"		1.50		8.41	20		
Lead	3.33	0.200	"		3.21		3.58	20		
Nickel	1.42	0.400	"		1.52		6.74	20		
Silver	0.0277	0.0200	"		0.0201		31.6	20		QR-01
Zinc	5.86	0.400	"		6.04		3.03	20		
Selenium	1.49	0.260	"		1.39		6.86	20		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

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 BGJ1054 - EPA 3050B

Matrix Spike (BGJ1054-MS1)

Source: 2310420-01

Prepared: 10/26/23 Analyzed: 10/27/23

Arsenic	16.4	0.200	mg/kg dry	42.0	0.659	37.6	75-125				QM-07
Barium	81.1	0.400	"	42.0	99.5	NR	75-125				QM-07
Cadmium	1.86	0.200	"	2.10	0.0466	86.3	75-125				
Copper	17.5	0.400	"	42.0	1.50	38.2	75-125				QM-07
Lead	21.5	0.200	"	21.0	3.21	87.2	75-125				
Nickel	17.1	0.400	"	42.0	1.52	37.1	75-125				QM-07
Silver	1.81	0.0200	"	2.10	0.0201	85.5	75-125				
Zinc	21.5	0.400	"	42.0	6.04	37.0	75-125				QM-07
Selenium	5.11	0.260	"	4.20	1.39	88.8	75-125				

Matrix Spike Dup (BGJ1054-MSD1)

Source: 2310420-01

Prepared: 10/26/23 Analyzed: 10/27/23

Arsenic	16.2	0.200	mg/kg dry	42.0	0.659	37.1	75-125	1.30	25		QM-07
Barium	72.9	0.400	"	42.0	99.5	NR	75-125	10.7	25		QM-07
Cadmium	1.70	0.200	"	2.10	0.0466	78.7	75-125	9.02	25		
Copper	17.1	0.400	"	42.0	1.50	37.3	75-125	2.09	25		QM-07
Lead	19.4	0.200	"	21.0	3.21	77.3	75-125	10.2	25		
Nickel	16.8	0.400	"	42.0	1.52	36.4	75-125	1.56	25		QM-07
Silver	1.64	0.0200	"	2.10	0.0201	77.3	75-125	9.91	25		
Zinc	21.1	0.400	"	42.0	6.04	35.9	75-125	2.05	25		QM-07
Selenium	5.06	0.260	"	4.20	1.39	87.5	75-125	1.09	25		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

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 BGJ1052 - 3060A Mod

Blank (BGJ1052-BLK1)

Prepared: 10/26/23 Analyzed: 10/27/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ1052-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

Chromium, Hexavalent 24.0 0.30 mg/kg wet 25.0 96.0 80-120

Duplicate (BGJ1052-DUP1)

Source: 2310463-01

Prepared: 10/26/23 Analyzed: 10/27/23

Chromium, Hexavalent ND 0.30 mg/kg wet ND 20

Matrix Spike (BGJ1052-MS1)

Source: 2310463-01

Prepared: 10/26/23 Analyzed: 10/27/23

Chromium, Hexavalent 22.6 0.30 mg/kg wet 25.0 ND 90.6 75-125

Matrix Spike Dup (BGJ1052-MSD1)

Source: 2310463-01

Prepared: 10/26/23 Analyzed: 10/27/23

Chromium, Hexavalent 22.6 0.30 mg/kg wet 25.0 ND 90.4 75-125 0.221 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

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 BGJ1024 - General Preparation

Blank (BGJ1024-BLK1)

Prepared: 10/25/23 Analyzed: 10/27/23

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

LCS (BGJ1024-BS1)

Prepared: 10/25/23 Analyzed: 10/27/23

Calcium	5.34	0.0500	mg/L wet	5.00		107	70-130			
Magnesium	5.87	0.0500	"	5.00		117	70-130			
Sodium	4.88	0.0500	"	5.00		97.6	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

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

Summit Scientific

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

Batch BGJ1113 - General Preparation

Duplicate (BGJ1113-DUP1)

Source: 2310452-02

Prepared & Analyzed: 10/27/23

% Solids	84.5		%		84.6			0.110	20	
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Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

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 BGJ1041 - General Preparation

Blank (BGJ1041-BLK1)

Prepared & Analyzed: 10/26/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ1041-BS1)

Prepared & Analyzed: 10/26/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.5 95-105

Duplicate (BGJ1041-DUP1)

Source: 2310494-01

Prepared & Analyzed: 10/26/23

Specific Conductance (EC) 0.350 0.0100 mmhos/cm 0.350 0.00 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 10/31/23 16:03

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 BGJ1042 - General Preparation

LCS (BGJ1042-BS1)

Prepared & Analyzed: 10/26/23

pH 9.02 pH Units 9.18 98.3 95-105

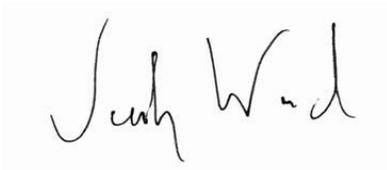
Duplicate (BGJ1042-DUP1)

Source: 2310494-01

Prepared & Analyzed: 10/26/23

pH 8.00 pH Units 8.03 0.374 20

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
10/31/23 16:03

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 01, 2023

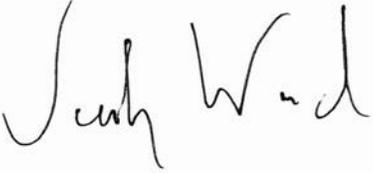
Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2310519

Enclosed are the results of analyses for samples received by Summit Scientific on 10/26/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a long horizontal stroke at the end.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N03@9'	2310519-01	Soil	10/26/23 12:45	10/26/23 16:30
B06@10'	2310519-02	Soil	10/26/23 12:46	10/26/23 16:30
GW06	2310519-03	Water	10/26/23 12:47	10/26/23 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
2310519	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: Fremont Distribution List	Project Name/Location: <i>Clynhe State B36-25, Baker State B36-12</i>	
City/State/Zip:		AFE#:	
Phone: 303-261-6246	Project Name: <i>Clynhe State B36-25, Baker State B36-12</i>	PO/Billing Codes:	
Sampler Name: Stanley Gilbert	Project Number: <i>CO22-187</i>	Contact: <i>Dan Peterson</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate	HOLD
1	N03@9'	10/26/23	12:45	2						X			X	X	X	X	X			
2	B06@10'	I	12:46	2						X			X	X	X	X	X			
3	GW06	I	12:47	3	3				X				X							
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>[Signature]</i>	Date/Time: 10/26/23 15:50	Received by: Summit North	Date/Time: 10/26/23 15:50	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <i>[Signature]</i>	Date/Time: 10/26/23 16:30	Received by: <i>[Signature]</i>	Date/Time: 10/26/23 16:30	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 12.1	Corrected Temperature: <i>[Signature]</i>	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2310519

Client: Evermont

Client Project ID: Clayke State B31-25, Baker State B36-12

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

Airbill #: _____

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

12.1

Thermometer #

1

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

10/26/23

Date/Time

45



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

N03@9'
2310519-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ1092	10/26/23	10/26/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0292	73.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0347	86.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0348	86.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.56	68.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

N03@9'
2310519-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0224	67.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0198	59.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 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: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

N03@9'
2310519-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	8.56	0.200	mg/kg dry	1	BGJ1129	10/27/23	10/30/23	EPA 6020B
Barium	90.4	0.400	"	"	"	"	"	"
Cadmium	0.318	0.200	"	"	"	"	"	"
Copper	7.91	0.400	"	"	"	"	"	"
Lead	12.5	0.200	"	"	"	"	"	"
Nickel	6.43	0.400	"	"	"	"	"	"
Silver	0.0607	0.0200	"	"	"	"	"	"
Zinc	20.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.6	0.0500	mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	14.0	0.0500	"	"	"	"	"	"	
Sodium	96.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.07	0.00100	units	1	BGJ1245	10/31/23	10/31/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 12:45**

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

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/01/23 14:41

N03@9'
2310519-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	77.1	%	1	BGJ1113	10/27/23	10/27/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.605	0.0100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

B06@10'
2310519-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/23 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ1092	10/26/23	10/27/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/26/23 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0291	72.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0343	85.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0353	88.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/23 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/26/23 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.05	72.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: CO22-187
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Reported:
11/01/23 14:41

B06@10'
2310519-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/26/23 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/26/23 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0141	42.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

B06@10'
2310519-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.99	0.200	mg/kg dry	1	BGJ1129	10/27/23	10/30/23	EPA 6020B	
Barium	151	0.400	"	"	"	"	"	"	
Cadmium	0.223	0.200	"	"	"	"	"	"	
Copper	7.08	0.400	"	"	"	"	"	"	
Lead	12.2	0.200	"	"	"	"	"	"	
Nickel	4.80	0.400	"	"	"	"	"	"	
Silver	0.0511	0.0200	"	"	"	"	"	"	
Zinc	17.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/26/23 12:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 12:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	152	0.0500	mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	35.5	0.0500	"	"	"	"	"	"	
Sodium	62.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/26/23 12:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.18	0.00100	units	1	BGJ1245	10/31/23	10/31/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/26/23 12:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/01/23 14:41

B06@10'
2310519-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.4	%	1	BGJ1113	10/27/23	10/27/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.290	0.0100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.26		pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/01/23 14:41

GW06
2310519-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/23 12:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGJ1096	10/26/23	10/26/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	12	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **10/26/23 12:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	10.9	81.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.3	108 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.2 %		21-167		"	"	"	"	

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

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 BGJ1092 - EPA 5030 Soil MS

Blank (BGJ1092-BLK1)

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0282		"	0.0400		70.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0331		"	0.0400		82.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0335		"	0.0400		83.8	50-150			

LCS (BGJ1092-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.0837	0.0050	"	0.100		83.7	70-130			
Ethylbenzene	0.0910	0.0050	"	0.100		91.0	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.4	70-130			
o-Xylene	0.0919	0.0050	"	0.100		91.9	70-130			
1,2,4-Trimethylbenzene	0.0920	0.0050	"	0.100		92.0	70-130			
1,3,5-Trimethylbenzene	0.0929	0.0050	"	0.100		92.9	70-130			
Naphthalene	0.0902	0.0038	"	0.100		90.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0281		"	0.0400		70.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0339		"	0.0400		84.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0346		"	0.0400		86.6	50-150			

Matrix Spike (BGJ1092-MS1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.0916	0.0020	mg/kg	0.100	ND	91.6	70-130			
Toluene	0.0718	0.0050	"	0.100	ND	71.8	70-130			
Ethylbenzene	0.0800	0.0050	"	0.100	ND	80.0	70-130			
m,p-Xylene	0.166	0.010	"	0.200	ND	83.0	70-130			
o-Xylene	0.0816	0.0050	"	0.100	ND	81.6	70-130			
1,2,4-Trimethylbenzene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
1,3,5-Trimethylbenzene	0.0812	0.0050	"	0.100	ND	81.2	70-130			
Naphthalene	0.0957	0.0038	"	0.100	ND	95.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0307		"	0.0400		76.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0333		"	0.0400		83.3	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0350		"	0.0400		87.6	50-150			

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

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 BGJ1092 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ1092-MSD1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.0863	0.0020	mg/kg	0.100	ND	86.3	70-130	5.94	30	
Toluene	0.0713	0.0050	"	0.100	ND	71.3	70-130	0.629	30	
Ethylbenzene	0.0756	0.0050	"	0.100	ND	75.6	70-130	5.67	30	
m,p-Xylene	0.157	0.010	"	0.200	ND	78.4	70-130	5.65	30	
o-Xylene	0.0775	0.0050	"	0.100	ND	77.5	70-130	5.13	30	
1,2,4-Trimethylbenzene	0.0783	0.0050	"	0.100	ND	78.3	70-130	5.98	30	
1,3,5-Trimethylbenzene	0.0769	0.0050	"	0.100	ND	76.9	70-130	5.35	30	
Naphthalene	0.0955	0.0038	"	0.100	ND	95.5	70-130	0.251	30	
Surrogate: 1,2-Dichloroethane-d4	0.0294		"	0.0400		73.5	50-150			
Surrogate: Toluene-d8	0.0344		"	0.0400		85.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0350		"	0.0400		87.5	50-150			

Batch BGJ1096 - EPA 5030 Water MS

Blank (BGJ1096-BLK1)

Prepared & Analyzed: 10/26/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.8		"	13.3		88.4	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.8	21-167			

LCS (BGJ1096-BS1)

Prepared & Analyzed: 10/26/23

Benzene	32.7	1.0	ug/l	33.3		98.0	51-132			
Toluene	31.2	1.0	"	33.3		93.7	51-138			
Ethylbenzene	32.4	1.0	"	33.3		97.3	58-146			
m,p-Xylene	63.6	2.0	"	66.7		95.4	57-144			
o-Xylene	31.0	1.0	"	33.3		92.9	53-146			
Naphthalene	28.9	1.0	"	33.3		86.8	70-130			
1,2,4-Trimethylbenzene	31.3	1.0	"	33.3		93.9	70-130			
1,3,5-Trimethylbenzene	31.7	1.0	"	33.3		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.3		94.5	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.0	21-167			

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/01/23 14:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGJ1096 - EPA 5030 Water MS

LCS Dup (BGJ1096-BSD1)

Prepared & Analyzed: 10/26/23

Benzene	34.1	1.0	ug/l	33.3	102	51-132	4.40	20	
Toluene	32.7	1.0	"	33.3	98.2	51-138	4.69	20	
Ethylbenzene	34.2	1.0	"	33.3	103	58-146	5.31	20	
m,p-Xylene	67.3	2.0	"	66.7	101	57-144	5.59	20	
o-Xylene	32.7	1.0	"	33.3	98.2	53-146	5.62	20	
Naphthalene	29.4	1.0	"	33.3	88.2	70-130	1.68	20	
1,2,4-Trimethylbenzene	33.2	1.0	"	33.3	99.6	70-130	5.89	20	
1,3,5-Trimethylbenzene	33.5	1.0	"	33.3	100	70-130	5.43	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.4</i>		<i>"</i>	<i>13.3</i>	<i>93.1</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>	<i>99.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>	<i>97.3</i>	<i>21-167</i>			

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Project Number: CO22-187
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Reported:
 11/01/23 14:41

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 BGJ1093 - EPA 3550A

Blank (BGJ1093-BLK1)

Prepared & Analyzed: 10/26/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	18.1		"	12.5		145	30-150				

LCS (BGJ1093-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	530	50	mg/kg	500		106	70-130				
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102	30-150				

Matrix Spike (BGJ1093-MS1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	499	50	mg/kg	500	14.7	96.9	70-130				
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		108	30-150				

Matrix Spike Dup (BGJ1093-MSD1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	508	50	mg/kg	500	14.7	98.7	70-130	1.76	20		
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5		118	30-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGJ1100 - EPA 5030 Soil MS

Blank (BGJ1100-BLK1)

Prepared & Analyzed: 10/27/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0301		"	0.0333		90.4	40-150			
Surrogate: Fluoranthene-d10	0.0282		"	0.0333		84.7	40-150			

LCS (BGJ1100-BS1)

Prepared & Analyzed: 10/27/23

Acenaphthene	0.0250	0.00500	mg/kg	0.0333		75.1	31-137			
Anthracene	0.0288	0.00500	"	0.0333		86.3	30-120			
Benzo (a) anthracene	0.0270	0.00500	"	0.0333		81.0	30-120			
Benzo (a) pyrene	0.0235	0.00500	"	0.0333		70.6	30-120			
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333		77.2	30-120			
Benzo (k) fluoranthene	0.0251	0.00500	"	0.0333		75.2	30-120			
Chrysene	0.0287	0.00500	"	0.0333		86.1	30-120			
Dibenz (a,h) anthracene	0.0233	0.00500	"	0.0333		70.0	30-120			
Fluoranthene	0.0280	0.00500	"	0.0333		84.1	30-120			
Fluorene	0.0245	0.00500	"	0.0333		73.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333		75.2	30-120			
Pyrene	0.0240	0.00500	"	0.0333		72.0	35-142			
1-Methylnaphthalene	0.0220	0.00500	"	0.0333		65.9	35-142			
2-Methylnaphthalene	0.0236	0.00500	"	0.0333		70.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0311		"	0.0333		93.2	40-150			
Surrogate: Fluoranthene-d10	0.0299		"	0.0333		89.7	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

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 BGJ1100 - EPA 5030 Soil MS

Matrix Spike (BGJ1100-MS1)	Source: 2310452-02			Prepared & Analyzed: 10/27/23						
Acenaphthene	0.0164	0.00500	mg/kg	0.0333	ND	49.1	31-137			
Anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120			
Benzo (a) anthracene	0.0157	0.00500	"	0.0333	ND	47.1	30-120			
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120			
Benzo (b) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120			
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	30-120			
Chrysene	0.0162	0.00500	"	0.0333	ND	48.7	30-120			
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120			
Fluoranthene	0.0135	0.00500	"	0.0333	ND	40.6	30-120			
Fluorene	0.0151	0.00500	"	0.0333	ND	45.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.8	30-120			
Pyrene	0.0168	0.00500	"	0.0333	ND	50.4	35-142			
1-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.1	15-130			
2-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0154</i>		<i>"</i>	<i>0.0333</i>		<i>46.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0137</i>		<i>"</i>	<i>0.0333</i>		<i>41.0</i>	<i>40-150</i>			

Matrix Spike Dup (BGJ1100-MSD1)	Source: 2310452-02			Prepared & Analyzed: 10/27/23						
Acenaphthene	0.0157	0.00500	mg/kg	0.0333	ND	47.0	31-137	4.29	30	
Anthracene	0.0138	0.00500	"	0.0333	ND	41.5	30-120	6.48	30	
Benzo (a) anthracene	0.0136	0.00500	"	0.0333	ND	40.7	30-120	14.7	30	
Benzo (a) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	5.32	30	
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	7.20	30	
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.7	30-120	8.09	30	
Chrysene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	12.5	30	
Dibenz (a,h) anthracene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	6.34	30	
Fluoranthene	0.0139	0.00500	"	0.0333	ND	41.8	30-120	2.87	30	
Fluorene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	3.10	30	
Indeno (1,2,3-cd) pyrene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	0.499	30	
Pyrene	0.0152	0.00500	"	0.0333	ND	45.7	35-142	9.79	30	
1-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.2	15-130	1.91	50	
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	15-130	4.87	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0142</i>		<i>"</i>	<i>0.0333</i>		<i>42.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0145</i>		<i>"</i>	<i>0.0333</i>		<i>43.5</i>	<i>40-150</i>			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/01/23 14:41

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 BGJ1114 - EPA 3050B

Blank (BGJ1114-BLK1)

Prepared: 10/27/23 Analyzed: 11/01/23

Boron ND 2.00 mg/L

LCS (BGJ1114-BS1)

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.72 2.00 mg/L 5.00 94.5 80-120

Duplicate (BGJ1114-DUP1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 0.187 2.00 mg/L 0.217 14.6 20

Matrix Spike (BGJ1114-MS1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.68 2.00 mg/L 5.00 0.217 89.2 75-125

Matrix Spike Dup (BGJ1114-MSD1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.62 2.00 mg/L 5.00 0.217 88.0 75-125 1.34 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ1129 - EPA 3050B

Blank (BGJ1129-BLK1)

Prepared: 10/27/23 Analyzed: 10/30/23

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

LCS (BGJ1129-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

Arsenic	40.6	0.200	mg/kg wet	40.0	102	80-120
Barium	40.3	0.400	"	40.0	101	80-120
Cadmium	2.21	0.200	"	2.00	110	80-120
Copper	39.9	0.400	"	40.0	99.7	80-120
Lead	22.6	0.200	"	20.0	113	80-120
Nickel	40.3	0.400	"	40.0	101	80-120
Silver	2.16	0.0200	"	2.00	108	80-120
Zinc	40.0	0.400	"	40.0	100	80-120
Selenium	4.56	0.260	"	4.00	114	80-120

Duplicate (BGJ1129-DUP1)

Source: 2310417-01

Prepared: 10/27/23 Analyzed: 10/30/23

Arsenic	2.02	0.200	mg/kg dry	1.79	12.3	20
Barium	58.5	0.400	"	48.1	19.4	20
Cadmium	0.143	0.200	"	0.126	12.5	20
Copper	3.28	0.400	"	2.90	12.2	20
Lead	5.84	0.200	"	5.17	12.3	20
Nickel	3.14	0.400	"	2.84	10.1	20
Silver	0.0246	0.0200	"	0.0224	9.17	20
Zinc	12.9	0.400	"	11.7	10.1	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

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 BGJ1129 - EPA 3050B

Matrix Spike (BGJ1129-MS1)

Source: 2310417-01

Prepared: 10/27/23 Analyzed: 10/30/23

Arsenic	55.3	0.200	mg/kg dry	43.1	1.79	124	75-125				
Barium	105	0.400	"	43.1	48.1	131	75-125				QM-07
Cadmium	2.47	0.200	"	2.16	0.126	109	75-125				
Copper	35.3	0.400	"	43.1	2.90	75.0	75-125				
Lead	29.4	0.200	"	21.6	5.17	112	75-125				
Nickel	36.0	0.400	"	43.1	2.84	76.8	75-125				
Silver	2.27	0.0200	"	2.16	0.0224	104	75-125				
Zinc	45.4	0.400	"	43.1	11.7	78.2	75-125				
Selenium	6.26	0.260	"	4.31	ND	145	75-125				QM-07

Matrix Spike Dup (BGJ1129-MSD1)

Source: 2310417-01

Prepared: 10/27/23 Analyzed: 10/30/23

Arsenic	58.0	0.200	mg/kg dry	43.1	1.79	130	75-125	4.79	25		QM-07
Barium	110	0.400	"	43.1	48.1	143	75-125	4.58	25		QM-07
Cadmium	2.62	0.200	"	2.16	0.126	116	75-125	5.89	25		
Copper	36.8	0.400	"	43.1	2.90	78.6	75-125	4.29	25		
Lead	31.3	0.200	"	21.6	5.17	121	75-125	6.11	25		
Nickel	37.5	0.400	"	43.1	2.84	80.4	75-125	4.24	25		
Silver	2.34	0.0200	"	2.16	0.0224	108	75-125	3.06	25		
Zinc	47.3	0.400	"	43.1	11.7	82.7	75-125	4.13	25		
Selenium	6.39	0.260	"	4.31	ND	148	75-125	2.07	25		QM-07

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/01/23 14:41

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 BGJ1117 - 3060A Mod

Blank (BGJ1117-BLK1)

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ1117-BS1)

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.6 80-120

Duplicate (BGJ1117-DUP1)

Source: 2310450-01

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ1117-MS1)

Source: 2310450-01

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent 31.7 0.30 mg/kg dry 33.4 ND 95.0 75-125

Matrix Spike Dup (BGJ1117-MSD1)

Source: 2310450-01

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent 31.7 0.30 mg/kg dry 33.4 ND 95.0 75-125 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/01/23 14:41

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 BGJ1097 - General Preparation

Blank (BGJ1097-BLK1)

Prepared: 10/26/23 Analyzed: 10/31/23

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

LCS (BGJ1097-BS1)

Prepared: 10/26/23 Analyzed: 10/31/23

Calcium	4.80	0.0500	mg/L wet	5.00	96.0	70-130				
Magnesium	5.40	0.0500	"	5.00	108	70-130				
Sodium	5.45	0.0500	"	5.00	109	70-130				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/01/23 14:41

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 BGJ1113 - General Preparation

Duplicate (BGJ1113-DUP1)

Source: 2310452-02

Prepared & Analyzed: 10/27/23

% Solids	84.5		%		84.6			0.110	20	
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Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/01/23 14:41

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

Summit Scientific

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

Batch BGJ1099 - General Preparation

Blank (BGJ1099-BLK1)

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ1099-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGJ1099-DUP1)

Source: 2310424-01

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.272 0.0100 mmhos/cm 0.272 0.00 20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/01/23 14:41

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 BGJ1101 - General Preparation

LCS (BGJ1101-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

pH	9.05	pH Units	9.18	98.6	95-105
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Duplicate (BGJ1101-DUP1)

Source: 2310424-01

Prepared: 10/27/23 Analyzed: 10/30/23

pH	8.12	pH Units	8.12	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/01/23 14:41

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 06, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2310538

Enclosed are the results of analyses for samples received by Summit Scientific on 10/27/23 17:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@9'	2310538-01	Soil	10/27/23 14:00	10/27/23 17:25
BKG01@10'	2310538-02	Soil	10/27/23 14:15	10/27/23 17:25
BKG02@9'	2310538-03	Soil	10/27/23 14:20	10/27/23 17:25
BKG02@10'	2310538-04	Soil	10/27/23 14:25	10/27/23 17:25
BKG03@9'	2310538-05	Soil	10/27/23 14:30	10/27/23 17:25
BKG03@10'	2310538-06	Soil	10/27/23 14:35	10/27/23 17:25
BKG04@9'	2310538-07	Soil	10/27/23 14:40	10/27/23 17:25
BKG04@10'	2310538-08	Soil	10/27/23 14:45	10/27/23 17:25
BKG05@9'	2310538-09	Soil	10/27/23 14:50	10/27/23 17:25
BKG05@10'	2310538-10	Soil	10/27/23 14:55	10/27/23 17:25
GW07	2310538-11	Water	10/27/23 15:00	10/27/23 17:25

Summit Scientific

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

Lab ID	Page 1 of 1
2310538	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: Fremont Distribution List	Project Name/Location: Clynke State B36-25, Baker State B36-12	
City/State/Zip:		AFE#:	
Phone: 303-261-6246	Project Name: Clynke State B36-25, Baker State B36-12	PO/Billing Codes:	
Sampler Name: Stanley Gilbert	Project Number: 022-187	Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	BKG02 @ 9'	10/27/23	14:00	1			X			X					X	X			
2	BKG01 @ 10'		14:15	1			X			X					X	X			
3	BKG02 @ 9'		14:20	1			X			X					X	X			
4	BKG02 @ 10'		14:25	1			X			X					X	X			
5	BKG03 @ 9'		14:30	1			X			X					X	X			
6	BKG03 @ 10'		14:35	1			X			X					X	X			
7	BKG04 @ 9'		14:40	1			X			X					X	X			
8	BKG04 @ 10'		14:45	1			X			X					X	X			
9	BKG05 @ 9'		14:50	1			X			X					X	X			
10	BKG05 @ 10'		14:55	1			X			X					X	X			
11	GW07		15:00	3	3				X			X							
12																			
13																			
14																			
15																			

Relinquished by: <i>Stanley Gilbert</i>	Date/Time: 10/27/23 17:25	Received by: <i>Paul Henehan</i>	Date/Time: 10/27/23 17:25	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 10.7	Corrected Temperature: 2	IR gun #:	HNO3 lot #:			

S₂

S2 Work Order# 2310538

Sample Receipt Checklist

Client: Fremont / Noble Client Project ID: Clynke State B36-25, Baker State

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

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

Temp (°C) 10.7 Thermometer # 2

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

AS
Custodian Printed Name

10/27/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG01@9'
2310538-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/27/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1196	10/30/23	11/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/27/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.56	0.200	mg/kg dry	1	BGJ1172	10/30/23	11/02/23	EPA 6020B	
Barium	56.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.84	0.400	"	"	"	"	"	"	
Lead	4.23	0.200	"	"	"	"	"	"	
Nickel	2.64	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.91	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/27/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1176	10/30/23	10/31/23	EPA 7196A	

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

Date Sampled: **10/27/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.7	0.0500	mg/L dry	1	BGJ1151	10/27/23	11/01/23	EPA 6020B	
Magnesium	5.25	0.0500	"	"	"	"	"	"	
Sodium	72.1	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG01@9'
2310538-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/27/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.34	0.00100	units	1	BGK0026	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BGJ1170	10/30/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/27/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.487	0.0100	mmhos/cm	1	BGJ1183	10/30/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/27/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BGJ1184	10/30/23	10/30/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG01@10'
2310538-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/27/23 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1196	10/30/23	11/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/27/23 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.29	0.200	mg/kg dry	1	BGJ1172	10/30/23	11/02/23	EPA 6020B	
Barium	43.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.83	0.400	"	"	"	"	"	"	
Lead	4.27	0.200	"	"	"	"	"	"	
Nickel	2.01	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.17	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/27/23 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1176	10/30/23	10/31/23	EPA 7196A	

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

Date Sampled: **10/27/23 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	74.6	0.0500	mg/L dry	1	BGJ1151	10/27/23	11/01/23	EPA 6020B	
Magnesium	6.60	0.0500	"	"	"	"	"	"	
Sodium	63.7	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG01@10'
2310538-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/27/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.90	0.00100	units	1	BGK0026	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.7		%	1	BGJ1170	10/30/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/27/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.463	0.0100	mmhos/cm	1	BGJ1183	10/30/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/27/23 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BGJ1184	10/30/23	10/30/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG02@9'
2310538-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/27/23 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1196	10/30/23	11/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/27/23 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.02	0.200	mg/kg dry	1	BGJ1172	10/30/23	11/02/23	EPA 6020B	
Barium	254	0.400	"	"	"	"	"	"	
Cadmium	0.262	0.200	"	"	"	"	"	"	
Copper	4.98	0.400	"	"	"	"	"	"	
Lead	12.1	0.200	"	"	"	"	"	"	
Nickel	3.53	0.400	"	"	"	"	"	"	
Silver	0.0738	0.0200	"	"	"	"	"	"	
Zinc	15.4	0.400	"	"	"	"	"	"	
Selenium	0.262	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/27/23 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1176	10/30/23	10/31/23	EPA 7196A	

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

Date Sampled: **10/27/23 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	125	0.0500	mg/L dry	1	BGJ1151	10/27/23	11/01/23	EPA 6020B	
Magnesium	37.1	0.0500	"	"	"	"	"	"	
Sodium	214	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG02@9'
2310538-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/27/23 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.32	0.00100	units	1	BGK0026	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/23 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.4		%	1	BGJ1170	10/30/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/27/23 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.94	0.0100	mmhos/cm	1	BGJ1183	10/30/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/27/23 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BGJ1184	10/30/23	10/30/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG02@10'
2310538-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/27/23 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1196	10/30/23	11/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/27/23 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.988	0.200	mg/kg dry	1	BGJ1172	10/30/23	11/02/23	EPA 6020B	
Barium	225	0.400	"	"	"	"	"	"	
Cadmium	0.317	0.200	"	"	"	"	"	"	
Copper	4.55	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	3.08	0.400	"	"	"	"	"	"	
Silver	0.0589	0.0200	"	"	"	"	"	"	
Zinc	13.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/27/23 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1176	10/30/23	10/31/23	EPA 7196A	

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

Date Sampled: **10/27/23 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	69.2	0.0500	mg/L dry	1	BGJ1151	10/27/23	11/01/23	EPA 6020B	
Magnesium	20.5	0.0500	"	"	"	"	"	"	
Sodium	171	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

BKG02@10'
2310538-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/27/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.64	0.00100	units	1	BGK0026	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.4		%	1	BGJ1170	10/30/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/27/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.34	0.0100	mmhos/cm	1	BGJ1183	10/30/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/27/23 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BGJ1184	10/30/23	10/30/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG03@9'
2310538-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/27/23 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1196	10/30/23	11/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/27/23 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.18	0.200	mg/kg dry	1	BGJ1172	10/30/23	11/02/23	EPA 6020B	
Barium	199	0.400	"	"	"	"	"	"	
Cadmium	0.333	0.200	"	"	"	"	"	"	
Copper	5.13	0.400	"	"	"	"	"	"	
Lead	15.6	0.200	"	"	"	"	"	"	
Nickel	3.87	0.400	"	"	"	"	"	"	
Silver	0.0800	0.0200	"	"	"	"	"	"	
Zinc	14.9	0.400	"	"	"	"	"	"	
Selenium	0.268	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/27/23 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1176	10/30/23	10/31/23	EPA 7196A	

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

Date Sampled: **10/27/23 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	165	0.0500	mg/L dry	1	BGJ1151	10/27/23	11/01/23	EPA 6020B	
Magnesium	45.4	0.0500	"	"	"	"	"	"	
Sodium	284	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG03@9'
2310538-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/27/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.05	0.00100	units	1	BGK0026	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.5		%	1	BGJ1170	10/30/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/27/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.48	0.0100	mmhos/cm	1	BGJ1183	10/30/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/27/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BGJ1184	10/30/23	10/30/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG03@10'
2310538-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/27/23 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1196	10/30/23	11/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/27/23 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.62	0.200	mg/kg dry	1	BGJ1172	10/30/23	11/02/23	EPA 6020B	
Barium	219	0.400	"	"	"	"	"	"	
Cadmium	0.358	0.200	"	"	"	"	"	"	
Copper	5.51	0.400	"	"	"	"	"	"	
Lead	15.9	0.200	"	"	"	"	"	"	
Nickel	3.98	0.400	"	"	"	"	"	"	
Silver	0.0809	0.0200	"	"	"	"	"	"	
Zinc	14.5	0.400	"	"	"	"	"	"	
Selenium	0.335	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/27/23 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1176	10/30/23	10/31/23	EPA 7196A	

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

Date Sampled: **10/27/23 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	191	0.0500	mg/L dry	1	BGJ1151	10/27/23	11/01/23	EPA 6020B	
Magnesium	54.6	0.0500	"	"	"	"	"	"	
Sodium	368	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG03@10'
2310538-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/27/23 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.04	0.00100	units	1	BGK0026	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/23 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	74.2		%	1	BGJ1170	10/30/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/27/23 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.04	0.0100	mmhos/cm	1	BGJ1183	10/30/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/27/23 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BGJ1184	10/30/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG04@9'
2310538-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/27/23 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1196	10/30/23	11/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/27/23 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.998	0.200	mg/kg dry	1	BGJ1172	10/30/23	11/02/23	EPA 6020B	
Barium	86.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.59	0.400	"	"	"	"	"	"	
Lead	7.62	0.200	"	"	"	"	"	"	
Nickel	2.62	0.400	"	"	"	"	"	"	
Silver	0.0352	0.0200	"	"	"	"	"	"	
Zinc	10.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/27/23 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1176	10/30/23	10/31/23	EPA 7196A	

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

Date Sampled: **10/27/23 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	51.5	0.0500	mg/L dry	1	BGJ1151	10/27/23	11/01/23	EPA 6020B	
Magnesium	5.18	0.0500	"	"	"	"	"	"	
Sodium	45.4	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

BKG04@9'
2310538-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/27/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.61	0.00100	units	1	BGK0026	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BGJ1170	10/30/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/27/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.359	0.0100	mmhos/cm	1	BGJ1183	10/30/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/27/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.75		pH Units	1	BGJ1184	10/30/23	10/30/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG04@10'
2310538-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/27/23 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1196	10/30/23	11/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/27/23 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.39	0.200	mg/kg dry	1	BGJ1172	10/30/23	11/02/23	EPA 6020B	
Barium	113	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.66	0.400	"	"	"	"	"	"	
Lead	9.71	0.200	"	"	"	"	"	"	
Nickel	4.60	0.400	"	"	"	"	"	"	
Silver	0.0384	0.0200	"	"	"	"	"	"	
Zinc	11.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/27/23 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1176	10/30/23	10/31/23	EPA 7196A	

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

Date Sampled: **10/27/23 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	42.9	0.0500	mg/L dry	1	BGJ1151	10/27/23	11/01/23	EPA 6020B	
Magnesium	6.07	0.0500	"	"	"	"	"	"	
Sodium	35.2	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG04@10'
2310538-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/27/23 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.33	0.00100	units	1	BGK0026	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/23 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.3		%	1	BGJ1170	10/30/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/27/23 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.300	0.0100	mmhos/cm	1	BGJ1183	10/30/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/27/23 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.73		pH Units	1	BGJ1184	10/30/23	10/30/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG05@9'
2310538-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/27/23 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1196	10/30/23	11/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/27/23 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.51	0.200	mg/kg dry	1	BGJ1172	10/30/23	11/02/23	EPA 6020B	
Barium	126	0.400	"	"	"	"	"	"	
Cadmium	0.229	0.200	"	"	"	"	"	"	
Copper	4.24	0.400	"	"	"	"	"	"	
Lead	9.68	0.200	"	"	"	"	"	"	
Nickel	3.64	0.400	"	"	"	"	"	"	
Silver	0.0431	0.0200	"	"	"	"	"	"	
Zinc	11.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/27/23 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1176	10/30/23	10/31/23	EPA 7196A	

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

Date Sampled: **10/27/23 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	71.8	0.0500	mg/L dry	1	BGJ1151	10/27/23	11/01/23	EPA 6020B	
Magnesium	6.04	0.0500	"	"	"	"	"	"	
Sodium	51.0	0.0500	"	"	"	"	"	"	

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 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

BKG05@9'
2310538-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/27/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.55	0.00100	units	1	BGK0026	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9		%	1	BGJ1170	10/30/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/27/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.375	0.0100	mmhos/cm	1	BGJ1183	10/30/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/27/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.77		pH Units	1	BGJ1184	10/30/23	10/30/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG05@10'
2310538-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/27/23 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1196	10/30/23	11/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/27/23 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.650	0.200	mg/kg dry	1	BGJ1172	10/30/23	11/02/23	EPA 6020B	
Barium	29.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.75	0.400	"	"	"	"	"	"	
Lead	3.23	0.200	"	"	"	"	"	"	
Nickel	1.29	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.87	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/27/23 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1176	10/30/23	10/31/23	EPA 7196A	

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

Date Sampled: **10/27/23 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	25.8	0.0500	mg/L dry	1	BGJ1151	10/27/23	11/01/23	EPA 6020B	
Magnesium	6.48	0.0500	"	"	"	"	"	"	
Sodium	47.3	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

BKG05@10'
2310538-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/27/23 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.16	0.00100	units	1	BGK0026	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/23 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BGJ1170	10/30/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/27/23 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.450	0.0100	mmhos/cm	1	BGJ1183	10/30/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/27/23 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BGJ1184	10/30/23	10/30/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

GW07
2310538-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/27/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGJ1147	10/27/23	10/28/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	1.7	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	55	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	200	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **10/27/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.2	107 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	17.6	132 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.2	106 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGJ1147 - EPA 5030 Water MS

Blank (BGJ1147-BLK1)

Prepared & Analyzed: 10/27/23

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	16.0		"	13.3		120		23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.4		20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2		21-167			

LCS (BGJ1147-BS1)

Prepared & Analyzed: 10/27/23

Benzene	32.7	1.0	ug/l	33.3		98.1		51-132			
Toluene	30.9	1.0	"	33.3		92.6		51-138			
Ethylbenzene	31.4	1.0	"	33.3		94.4		58-146			
m,p-Xylene	61.3	2.0	"	66.7		91.9		57-144			
o-Xylene	30.5	1.0	"	33.3		91.6		53-146			
Naphthalene	33.3	1.0	"	33.3		99.8		70-130			
1,2,4-Trimethylbenzene	30.9	1.0	"	33.3		92.8		70-130			
1,3,5-Trimethylbenzene	30.9	1.0	"	33.3		92.7		70-130			
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104		23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.1		20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0		21-167			

Matrix Spike (BGJ1147-MS1)

Source: 2310475-21

Prepared & Analyzed: 10/27/23

Benzene	38.3	1.0	ug/l	33.3	ND	115		34-141			
Toluene	35.7	1.0	"	33.3	ND	107		27-151			
Ethylbenzene	35.8	1.0	"	33.3	ND	108		29-160			
m,p-Xylene	69.9	2.0	"	66.7	ND	105		20-166			
o-Xylene	35.2	1.0	"	33.3	ND	106		33-159			
Naphthalene	47.9	1.0	"	33.3	ND	144		70-130			QM-07
1,2,4-Trimethylbenzene	35.9	1.0	"	33.3	ND	108		70-130			
1,3,5-Trimethylbenzene	34.6	1.0	"	33.3	ND	104		70-130			
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		113		23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.7		20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.5		21-167			

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGJ1147 - EPA 5030 Water MS

Matrix Spike Dup (BGJ1147-MSD1)	Source: 2310475-21			Prepared & Analyzed: 10/27/23							
Benzene	31.2	1.0	ug/l	33.3	ND	93.7	34-141	20.3	30		
Toluene	28.7	1.0	"	33.3	ND	86.0	27-151	21.9	30		
Ethylbenzene	28.6	1.0	"	33.3	ND	85.7	29-160	22.7	30		
m,p-Xylene	54.8	2.0	"	66.7	ND	82.2	20-166	24.1	30		
o-Xylene	27.9	1.0	"	33.3	ND	83.7	33-159	23.2	30		
Naphthalene	41.1	1.0	"	33.3	ND	123	70-130	15.3	30		
1,2,4-Trimethylbenzene	26.4	1.0	"	33.3	ND	79.2	70-130	30.6	30		QR-02
1,3,5-Trimethylbenzene	25.8	1.0	"	33.3	ND	77.5	70-130	28.9	30		
Surrogate: 1,2-Dichloroethane-d4	16.3		"	13.3		122	23-173				
Surrogate: Toluene-d8	13.2		"	13.3		99.3	20-170				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.5	21-167				

Summit Scientific

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





Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

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 BGJ1196 - EPA 3050B

Blank (BGJ1196-BLK1)

Prepared: 10/30/23 Analyzed: 11/02/23

Boron ND 2.00 mg/L

LCS (BGJ1196-BS1)

Prepared: 10/30/23 Analyzed: 11/02/23

Boron 5.46 2.00 mg/L 5.00 109 80-120

Duplicate (BGJ1196-DUP1)

Source: 2310533-03

Prepared: 10/30/23 Analyzed: 11/02/23

Boron 2.46 2.00 mg/L 2.29 7.34 20

Matrix Spike (BGJ1196-MS1)

Source: 2310533-03

Prepared: 10/30/23 Analyzed: 11/02/23

Boron 6.35 2.00 mg/L 5.00 2.29 81.2 75-125

Matrix Spike Dup (BGJ1196-MSD1)

Source: 2310533-03

Prepared: 10/30/23 Analyzed: 11/02/23

Boron 6.36 2.00 mg/L 5.00 2.29 81.4 75-125 0.197 25

Summit Scientific

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





Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ1172 - EPA 3050B

Blank (BGJ1172-BLK1)

Prepared: 10/30/23 Analyzed: 11/02/23

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

LCS (BGJ1172-BS1)

Prepared: 10/30/23 Analyzed: 11/02/23

Arsenic	40.0	0.200	mg/kg wet	40.0	99.9	80-120
Barium	35.0	0.400	"	40.0	87.6	80-120
Cadmium	1.76	0.200	"	2.00	87.8	80-120
Copper	43.2	0.400	"	40.0	108	80-120
Lead	18.6	0.200	"	20.0	92.9	80-120
Nickel	43.1	0.400	"	40.0	108	80-120
Silver	1.74	0.0200	"	2.00	87.2	80-120
Zinc	40.5	0.400	"	40.0	101	80-120
Selenium	4.29	0.260	"	4.00	107	80-120

Duplicate (BGJ1172-DUP1)

Source: 2310410-01

Prepared: 10/30/23 Analyzed: 11/02/23

Arsenic	1.30	0.200	mg/kg dry	1.50	14.0	20	
Barium	43.6	0.400	"	50.4	14.6	20	
Cadmium	0.0930	0.200	"	0.122	26.8	20	QR-01
Copper	1.84	0.400	"	2.17	16.6	20	
Lead	4.79	0.200	"	5.27	9.36	20	
Nickel	2.13	0.400	"	2.22	4.05	20	
Silver	0.0144	0.0200	"	0.0301	70.7	20	QR-01
Zinc	8.21	0.400	"	8.48	3.23	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ1172 - EPA 3050B

Matrix Spike (BGJ1172-MS1)

Source: 2310410-01

Prepared: 10/30/23 Analyzed: 11/02/23

Arsenic	20.4	0.200	mg/kg dry	45.0	1.50	42.1	75-125				QM-07
Barium	95.2	0.400	"	45.0	50.4	99.5	75-125				
Cadmium	2.35	0.200	"	2.25	0.122	99.3	75-125				
Copper	23.2	0.400	"	45.0	2.17	46.8	75-125				QM-07
Lead	27.8	0.200	"	22.5	5.27	100	75-125				
Nickel	23.7	0.400	"	45.0	2.22	47.9	75-125				QM-07
Silver	2.14	0.0200	"	2.25	0.0301	94.0	75-125				
Zinc	28.4	0.400	"	45.0	8.48	44.4	75-125				QM-07
Selenium	5.26	0.260	"	4.50	ND	117	75-125				

Matrix Spike Dup (BGJ1172-MSD1)

Source: 2310410-01

Prepared: 10/30/23 Analyzed: 11/02/23

Arsenic	19.8	0.200	mg/kg dry	45.0	1.50	40.7	75-125	3.16	25		QM-07
Barium	86.5	0.400	"	45.0	50.4	80.2	75-125	9.56	25		
Cadmium	2.10	0.200	"	2.25	0.122	88.1	75-125	11.4	25		
Copper	22.4	0.400	"	45.0	2.17	44.9	75-125	3.65	25		QM-07
Lead	25.2	0.200	"	22.5	5.27	88.5	75-125	10.1	25		
Nickel	22.9	0.400	"	45.0	2.22	46.0	75-125	3.67	25		QM-07
Silver	1.95	0.0200	"	2.25	0.0301	85.5	75-125	9.34	25		
Zinc	27.7	0.400	"	45.0	8.48	42.8	75-125	2.57	25		QM-07
Selenium	5.21	0.260	"	4.50	ND	116	75-125	0.996	25		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

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 BGJ1176 - 3060A Mod

Blank (BGJ1176-BLK1)

Prepared: 10/30/23 Analyzed: 10/31/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ1176-BS1)

Prepared: 10/30/23 Analyzed: 10/31/23

Chromium, Hexavalent 27.0 0.30 mg/kg wet 25.0 108 80-120

Duplicate (BGJ1176-DUP1)

Source: 2310538-01

Prepared: 10/30/23 Analyzed: 10/31/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ1176-MS1)

Source: 2310538-01

Prepared: 10/30/23 Analyzed: 10/31/23

Chromium, Hexavalent 28.4 0.30 mg/kg dry 29.6 ND 95.8 75-125

Matrix Spike Dup (BGJ1176-MSD1)

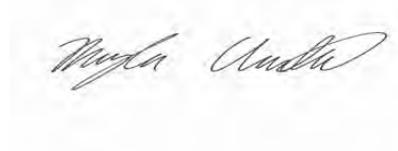
Source: 2310538-01

Prepared: 10/30/23 Analyzed: 10/31/23

Chromium, Hexavalent 28.3 0.30 mg/kg dry 29.6 ND 95.6 75-125 0.209 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

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 BGJ1151 - General Preparation

Blank (BGJ1151-BLK1)

Prepared: 10/27/23 Analyzed: 11/01/23

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

LCS (BGJ1151-BS1)

Prepared: 10/27/23 Analyzed: 11/01/23

Calcium	5.34	0.0500	mg/L wet	5.00		107	70-130			
Magnesium	5.10	0.0500	"	5.00		102	70-130			
Sodium	5.10	0.0500	"	5.00		102	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

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 BGJ1170 - General Preparation

Duplicate (BGJ1170-DUP1)

Source: 2310538-01

Prepared & Analyzed: 10/30/23

% Solids	84.7		%		84.4			0.332	20	
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

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 BGJ1183 - General Preparation

Blank (BGJ1183-BLK1)

Prepared & Analyzed: 10/30/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ1183-BS1)

Prepared & Analyzed: 10/30/23

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

Duplicate (BGJ1183-DUP1)

Source: 2310533-03

Prepared & Analyzed: 10/30/23

Specific Conductance (EC) 1.66 0.0100 mmhos/cm 1.68 1.31 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 07:29

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 BGJ1184 - General Preparation

LCS (BGJ1184-BS1)

Prepared & Analyzed: 10/30/23

pH	9.14	pH Units	9.18	99.6	95-105
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Duplicate (BGJ1184-DUP1)

Source: 2310533-03

Prepared & Analyzed: 10/30/23

pH	9.14	pH Units	9.10	0.439	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 07:29

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 06, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2310574

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

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S03@9'	2310574-01	Soil	10/30/23 14:38	10/30/23 16:30
B08@10'	2310574-02	Soil	10/30/23 14:40	10/30/23 16:30
GW08	2310574-03	Water	10/30/23 14:42	10/30/23 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
2310574	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip:		AFE#:	
Phone: 303-261-6246	Project Name: Lynke State B36-25, Baker State B36-12	PO/Billing Codes:	
Sampler Name: Stanley Gilbert	Project Number: 022-197	Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	
1	S03@9'	10/30/23	2:38	2			X			X			X	X	X	X			
2	B08@10'	I	2:40	2			X			X			X	X	X	X			
3	GW08	I	2:42	3	3				X				X						
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>[Signature]</i>	Date/Time: 10/30/23 16:20	Received by: Summit North	Date/Time: 10/30/23 16:20	TAT Business Days	Field DO	Notes:
Relinquished by: <i>[Signature]</i>	Date/Time: 10/30/23 16:30	Received by: <i>[Signature]</i>	Date/Time: 10/30/23 16:30	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
				Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: 10.4	Corrected Temperature: <i>[Symbol]</i>	IR gun #:	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2310574

Client: Fremont

Client Project ID: Cynke State B30-25, Baker State B30-12

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

Airbill #:

-

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

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

Additional Comments (if any):

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

AS

Custodian Printed Name

10/30/23

Date/Time

0 0 0



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

S03@9'
2310574-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ1217	10/30/23	10/30/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0508	127 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0421	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ1219	10/30/23	10/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.80	46.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

S03@9'
2310574-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1226	10/31/23	10/31/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0142	42.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1237	10/31/23	11/03/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

S03@9'
2310574-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.766	0.200	mg/kg dry	1	BGJ1244	10/31/23	11/02/23	EPA 6020B
Barium	27.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.57	0.400	"	"	"	"	"	"
Lead	3.17	0.200	"	"	"	"	"	"
Nickel	2.06	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1261	10/31/23	11/01/23	EPA 7196A	

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

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.7	0.0500	mg/L dry	1	BGJ1220	10/30/23	11/04/23	EPA 6020B	
Magnesium	8.04	0.0500	"	"	"	"	"	"	
Sodium	50.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.37	0.00100	units	1	BGK0175	11/06/23	11/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 10:41

S03@9'
2310574-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BGJ1234	10/31/23	11/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.396	0.0100	mmhos/cm	1	BGJ1221	10/31/23	10/31/23	EPA 120.1	

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

Date Sampled: **10/30/23 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BGJ1222	10/31/23	10/31/23	EPA 9045D	

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

B08@10'
2310574-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ1217	10/30/23	10/30/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0514	128 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0424	106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0434	109 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ1219	10/30/23	10/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/30/23 14:40**

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

PAH by EPA Method 8270D SIM

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Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

B08@10'
2310574-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1226	10/31/23	10/31/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0147	44.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1237	10/31/23	11/03/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/30/23 14:40**

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

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

B08@10'
2310574-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.12	0.200	mg/kg dry	1	BGJ1244	10/31/23	11/02/23	EPA 6020B	
Barium	22.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.23	0.400	"	"	"	"	"	"	
Lead	3.69	0.200	"	"	"	"	"	"	
Nickel	2.24	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1261	10/31/23	11/01/23	EPA 7196A	

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

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.9	0.0500	mg/L dry	1	BGJ1220	10/30/23	11/04/23	EPA 6020B	
Magnesium	18.0	0.0500	"	"	"	"	"	"	
Sodium	71.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.12	0.00100	units	1	BGK0175	11/06/23	11/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
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B08@10'
2310574-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.3		%	1	BGJ1234	10/31/23	11/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.656	0.0100	mmhos/cm	1	BGJ1221	10/31/23	10/31/23	EPA 120.1	

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

Date Sampled: **10/30/23 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BGJ1222	10/31/23	10/31/23	EPA 9045D	

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Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 10:41

GW08
2310574-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/23 14:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGJ1169	10/30/23	10/30/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	3.5	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **10/30/23 14:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	12.7	95.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.2 %		21-167		"	"	"	"	

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Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGJ1169 - EPA 5030 Water MS

Blank (BGJ1169-BLK1)

Prepared & Analyzed: 10/30/23

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	16.3		"	13.3		122		23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		98.7		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.4		"	13.3		100		21-167			

LCS (BGJ1169-BS1)

Prepared: 10/30/23 Analyzed: 10/31/23

Benzene	33.1	1.0	ug/l	33.3		99.2		51-132			
Toluene	30.8	1.0	"	33.3		92.3		51-138			
Ethylbenzene	31.4	1.0	"	33.3		94.3		58-146			
m,p-Xylene	61.4	2.0	"	66.7		92.2		57-144			
o-Xylene	30.6	1.0	"	33.3		91.9		53-146			
Naphthalene	29.2	1.0	"	33.3		87.7		70-130			
1,2,4-Trimethylbenzene	30.7	1.0	"	33.3		92.1		70-130			
1,3,5-Trimethylbenzene	30.5	1.0	"	33.3		91.5		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.9		"	13.3		96.8		23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		99.0		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.1		"	13.3		98.5		21-167			

Matrix Spike (BGJ1169-MS1)

Source: 2310529-01

Prepared & Analyzed: 10/30/23

Benzene	34.4	1.0	ug/l	33.3	ND	103		34-141			
Toluene	32.6	1.0	"	33.3	ND	97.9		27-151			
Ethylbenzene	32.4	1.0	"	33.3	ND	97.3		29-160			
m,p-Xylene	63.4	2.0	"	66.7	ND	95.0		20-166			
o-Xylene	31.8	1.0	"	33.3	ND	95.3		33-159			
Naphthalene	35.9	1.0	"	33.3	ND	108		70-130			
1,2,4-Trimethylbenzene	31.6	1.0	"	33.3	ND	95.0		70-130			
1,3,5-Trimethylbenzene	31.3	1.0	"	33.3	ND	93.8		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.0		"	13.3		105		23-173			
<i>Surrogate: Toluene-d8</i>	13.4		"	13.3		100		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.5		"	13.3		101		21-167			

Summit Scientific

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

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 BGJ1169 - EPA 5030 Water MS

Matrix Spike Dup (BGJ1169-MSD1)

Source: 2310529-01

Prepared & Analyzed: 10/30/23

Benzene	34.6	1.0	ug/l	33.3	ND	104	34-141	0.493	30	
Toluene	32.7	1.0	"	33.3	ND	98.2	27-151	0.306	30	
Ethylbenzene	32.5	1.0	"	33.3	ND	97.5	29-160	0.216	30	
m,p-Xylene	63.8	2.0	"	66.7	ND	95.7	20-166	0.739	30	
o-Xylene	32.1	1.0	"	33.3	ND	96.3	33-159	1.03	30	
Naphthalene	38.0	1.0	"	33.3	ND	114	70-130	5.60	30	
1,2,4-Trimethylbenzene	31.7	1.0	"	33.3	ND	95.1	70-130	0.126	30	
1,3,5-Trimethylbenzene	31.5	1.0	"	33.3	ND	94.6	70-130	0.764	30	
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		106	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	21-167			

Batch BGJ1217 - EPA 5030 Soil MS

Blank (BGJ1217-BLK1)

Prepared: 10/30/23 Analyzed: 10/31/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0470		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0433		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

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 BGJ1217 - EPA 5030 Soil MS

LCS (BGJ1217-BS1)

Prepared: 10/30/23 Analyzed: 10/31/23

Benzene	0.110	0.0020	mg/kg	0.100		110	70-130			
Toluene	0.112	0.0050	"	0.100		112	70-130			
Ethylbenzene	0.0971	0.0050	"	0.100		97.1	70-130			
m,p-Xylene	0.194	0.010	"	0.200		97.1	70-130			
o-Xylene	0.0903	0.0050	"	0.100		90.3	70-130			
1,2,4-Trimethylbenzene	0.0830	0.0050	"	0.100		83.0	70-130			
1,3,5-Trimethylbenzene	0.0834	0.0050	"	0.100		83.4	70-130			
Naphthalene	0.0976	0.0038	"	0.100		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0530		"	0.0400		133	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

Matrix Spike (BGJ1217-MS1)

Source: 2310573-01

Prepared: 10/30/23 Analyzed: 10/31/23

Benzene	0.0915	0.0020	mg/kg	0.100	ND	91.5	70-130			
Toluene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
Ethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130			
m,p-Xylene	0.178	0.010	"	0.200	ND	89.2	70-130			
o-Xylene	0.0878	0.0050	"	0.100	ND	87.8	70-130			
1,2,4-Trimethylbenzene	0.0772	0.0050	"	0.100	ND	77.2	70-130			
1,3,5-Trimethylbenzene	0.0927	0.0050	"	0.100	ND	92.7	70-130			
Naphthalene	0.0980	0.0038	"	0.100	ND	98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0542		"	0.0400		135	50-150			
Surrogate: Toluene-d8	0.0428		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

Matrix Spike Dup (BGJ1217-MSD1)

Source: 2310573-01

Prepared: 10/30/23 Analyzed: 10/31/23

Benzene	0.0958	0.0020	mg/kg	0.100	ND	95.8	70-130	4.58	30
Toluene	0.0906	0.0050	"	0.100	ND	90.6	70-130	8.63	30
Ethylbenzene	0.0760	0.0050	"	0.100	ND	76.0	70-130	13.6	30
m,p-Xylene	0.154	0.010	"	0.200	ND	77.2	70-130	14.5	30
o-Xylene	0.0994	0.0050	"	0.100	ND	99.4	70-130	12.5	30
1,2,4-Trimethylbenzene	0.0977	0.0050	"	0.100	ND	97.7	70-130	23.5	30
1,3,5-Trimethylbenzene	0.0864	0.0050	"	0.100	ND	86.4	70-130	7.07	30
Naphthalene	0.0803	0.0038	"	0.100	ND	80.3	70-130	19.8	30
Surrogate: 1,2-Dichloroethane-d4	0.0477		"	0.0400		119	50-150		
Surrogate: Toluene-d8	0.0418		"	0.0400		105	50-150		
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

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 BGJ1219 - EPA 3550A

Blank (BGJ1219-BLK1)

Prepared: 10/30/23 Analyzed: 10/31/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	9.72		"	12.5		77.8	30-150				

LCS (BGJ1219-BS1)

Prepared: 10/30/23 Analyzed: 10/31/23

C10-C28 (DRO)	446	50	mg/kg	500		89.2	70-130				
Surrogate: <i>o</i> -Terphenyl	8.60		"	12.5		68.8	30-150				

Matrix Spike (BGJ1219-MS1)

Source: 2310573-01

Prepared: 10/30/23 Analyzed: 10/31/23

C10-C28 (DRO)	492	50	mg/kg	500	12.1	95.9	70-130				
Surrogate: <i>o</i> -Terphenyl	10.0		"	12.5		80.0	30-150				

Matrix Spike Dup (BGJ1219-MSD1)

Source: 2310573-01

Prepared: 10/30/23 Analyzed: 10/31/23

C10-C28 (DRO)	479	50	mg/kg	500	12.1	93.4	70-130	2.55	20		
Surrogate: <i>o</i> -Terphenyl	9.59		"	12.5		76.7	30-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGJ1226 - EPA 5030 Soil MS

Blank (BGJ1226-BLK1)

Prepared & Analyzed: 10/31/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0391</i>		"	<i>0.0333</i>		<i>117</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0274</i>		"	<i>0.0333</i>		<i>82.3</i>		<i>40-150</i>		

LCS (BGJ1226-BS1)

Prepared & Analyzed: 10/31/23

Acenaphthene	0.0241	0.00500	mg/kg	0.0333		72.4		31-137		
Anthracene	0.0264	0.00500	"	0.0333		79.2		30-120		
Benzo (a) anthracene	0.0251	0.00500	"	0.0333		75.2		30-120		
Benzo (a) pyrene	0.0237	0.00500	"	0.0333		71.2		30-120		
Benzo (b) fluoranthene	0.0251	0.00500	"	0.0333		75.2		30-120		
Benzo (k) fluoranthene	0.0258	0.00500	"	0.0333		77.5		30-120		
Chrysene	0.0267	0.00500	"	0.0333		80.1		30-120		
Dibenz (a,h) anthracene	0.0200	0.00500	"	0.0333		60.1		30-120		
Fluoranthene	0.0267	0.00500	"	0.0333		80.1		30-120		
Fluorene	0.0274	0.00500	"	0.0333		82.3		30-120		
Indeno (1,2,3-cd) pyrene	0.0274	0.00500	"	0.0333		82.1		30-120		
Pyrene	0.0271	0.00500	"	0.0333		81.4		35-142		
1-Methylnaphthalene	0.0321	0.00500	"	0.0333		96.3		35-142		
2-Methylnaphthalene	0.0354	0.00500	"	0.0333		106		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0204</i>		"	<i>0.0333</i>		<i>61.2</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0265</i>		"	<i>0.0333</i>		<i>79.4</i>		<i>40-150</i>		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

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 BGJ1226 - EPA 5030 Soil MS

Matrix Spike (BGJ1226-MS1)	Source: 2310558-01			Prepared & Analyzed: 10/31/23						
Acenaphthene	0.0173	0.00500	mg/kg	0.0333	ND	51.9	31-137			
Anthracene	0.0186	0.00500	"	0.0333	ND	55.9	30-120			
Benzo (a) anthracene	0.0189	0.00500	"	0.0333	ND	56.8	30-120			
Benzo (a) pyrene	0.0168	0.00500	"	0.0333	ND	50.5	30-120			
Benzo (b) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.5	30-120			
Benzo (k) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.6	30-120			
Chrysene	0.0182	0.00500	"	0.0333	ND	54.6	30-120			
Dibenz (a,h) anthracene	0.0139	0.00500	"	0.0333	ND	41.8	30-120			
Fluoranthene	0.0195	0.00500	"	0.0333	ND	58.4	30-120			
Fluorene	0.0192	0.00500	"	0.0333	ND	57.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0196	0.00500	"	0.0333	ND	58.8	30-120			
Pyrene	0.0187	0.00500	"	0.0333	ND	56.1	35-142			
1-Methylnaphthalene	0.0247	0.00500	"	0.0333	ND	74.1	15-130			
2-Methylnaphthalene	0.0267	0.00500	"	0.0333	ND	80.0	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0155</i>		<i>"</i>	<i>0.0333</i>		<i>46.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0203</i>		<i>"</i>	<i>0.0333</i>		<i>60.8</i>	<i>40-150</i>			

Matrix Spike Dup (BGJ1226-MSD1)	Source: 2310558-01			Prepared & Analyzed: 10/31/23						
Acenaphthene	0.0152	0.00500	mg/kg	0.0333	ND	45.6	31-137	12.8	30	
Anthracene	0.0178	0.00500	"	0.0333	ND	53.4	30-120	4.45	30	
Benzo (a) anthracene	0.0182	0.00500	"	0.0333	ND	54.6	30-120	3.95	30	
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	ND	48.9	30-120	3.28	30	
Benzo (b) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.5	30-120	3.79	30	
Benzo (k) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	6.60	30	
Chrysene	0.0176	0.00500	"	0.0333	ND	52.8	30-120	3.33	30	
Dibenz (a,h) anthracene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	4.02	30	
Fluoranthene	0.0178	0.00500	"	0.0333	ND	53.5	30-120	8.71	30	
Fluorene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	8.72	30	
Indeno (1,2,3-cd) pyrene	0.0198	0.00500	"	0.0333	ND	59.5	30-120	1.28	30	
Pyrene	0.0183	0.00500	"	0.0333	ND	55.0	35-142	2.08	30	
1-Methylnaphthalene	0.0223	0.00500	"	0.0333	ND	66.8	15-130	10.4	50	
2-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.7	15-130	10.9	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0147</i>		<i>"</i>	<i>0.0333</i>		<i>44.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0183</i>		<i>"</i>	<i>0.0333</i>		<i>54.8</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 10:41

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 BGJ1237 - EPA 3050B

Blank (BGJ1237-BLK1)

Prepared: 10/31/23 Analyzed: 11/03/23

Boron ND 2.00 mg/L

LCS (BGJ1237-BS1)

Prepared: 10/31/23 Analyzed: 11/03/23

Boron 4.51 2.00 mg/L 5.00 90.3 80-120

Duplicate (BGJ1237-DUP1)

Source: 2310140-03

Prepared: 10/31/23 Analyzed: 11/03/23

Boron 0.237 2.00 mg/L 0.257 8.39 20

Matrix Spike (BGJ1237-MS1)

Source: 2310140-03

Prepared: 10/31/23 Analyzed: 11/03/23

Boron 4.40 2.00 mg/L 5.00 0.257 82.9 75-125

Matrix Spike Dup (BGJ1237-MSD1)

Source: 2310140-03

Prepared: 10/31/23 Analyzed: 11/03/23

Boron 4.71 2.00 mg/L 5.00 0.257 89.0 75-125 6.61 25

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ1244 - EPA 3050B

Blank (BGJ1244-BLK1)

Prepared: 10/31/23 Analyzed: 11/02/23

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

LCS (BGJ1244-BS1)

Prepared: 10/31/23 Analyzed: 11/02/23

Arsenic	34.6	0.200	mg/kg wet	40.0	86.4	80-120
Barium	38.1	0.400	"	40.0	95.3	80-120
Cadmium	1.84	0.200	"	2.00	92.1	80-120
Copper	39.3	0.400	"	40.0	98.2	80-120
Lead	18.5	0.200	"	20.0	92.7	80-120
Nickel	39.4	0.400	"	40.0	98.4	80-120
Silver	1.79	0.0200	"	2.00	89.7	80-120
Zinc	39.7	0.400	"	40.0	99.2	80-120
Selenium	4.64	0.260	"	4.00	116	80-120

Duplicate (BGJ1244-DUP1)

Source: 2310449-21

Prepared: 10/31/23 Analyzed: 11/02/23

Arsenic	3.29	0.200	mg/kg dry	2.44	29.5	20	QR-04
Barium	151	0.400	"	106	34.8	20	QR-04
Cadmium	0.241	0.200	"	0.172	33.2	20	QR-01
Copper	7.45	0.400	"	6.41	14.9	20	
Lead	10.0	0.200	"	7.58	28.0	20	QR-04
Nickel	6.33	0.400	"	5.03	23.0	20	QR-04
Silver	0.0418	0.0200	"	0.0324	25.4	20	QR-01
Zinc	25.9	0.400	"	20.7	22.2	20	QR-04
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

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 BGJ1244 - EPA 3050B

Matrix Spike (BGJ1244-MS1)

Source: 2310449-21

Prepared: 10/31/23 Analyzed: 11/02/23

Arsenic	39.5	0.200	mg/kg dry	52.3	2.44	70.9	75-125				QM-07
Barium	156	0.400	"	52.3	106	94.7	75-125				
Cadmium	2.19	0.200	"	2.61	0.172	77.0	75-125				
Copper	33.7	0.400	"	52.3	6.41	52.3	75-125				QM-07
Lead	28.4	0.200	"	26.1	7.58	79.6	75-125				
Nickel	32.6	0.400	"	52.3	5.03	52.7	75-125				QM-07
Silver	1.96	0.0200	"	2.61	0.0324	73.6	75-125				QM-07
Zinc	51.5	0.400	"	52.3	20.7	58.9	75-125				QM-07
Selenium	4.35	0.260	"	5.23	ND	83.2	75-125				

Matrix Spike Dup (BGJ1244-MSD1)

Source: 2310449-21

Prepared: 10/31/23 Analyzed: 11/02/23

Arsenic	39.5	0.200	mg/kg dry	52.3	2.44	70.8	75-125	0.0781	25		QM-07
Barium	156	0.400	"	52.3	106	95.4	75-125	0.238	25		
Cadmium	2.21	0.200	"	2.61	0.172	77.8	75-125	0.952	25		
Copper	33.0	0.400	"	52.3	6.41	50.8	75-125	2.35	25		QM-07
Lead	28.6	0.200	"	26.1	7.58	80.2	75-125	0.582	25		
Nickel	31.7	0.400	"	52.3	5.03	50.9	75-125	2.89	25		QM-07
Silver	1.95	0.0200	"	2.61	0.0324	73.4	75-125	0.214	25		QM-07
Zinc	50.5	0.400	"	52.3	20.7	56.9	75-125	2.06	25		QM-07
Selenium	4.14	0.260	"	5.23	ND	79.2	75-125	4.96	25		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 10:41

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGJ1261 - 3060A Mod

Blank (BGJ1261-BLK1)

Prepared: 10/31/23 Analyzed: 11/01/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ1261-BS1)

Prepared: 10/31/23 Analyzed: 11/01/23

Chromium, Hexavalent 26.1 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BGJ1261-DUP1)

Source: 2310455-02

Prepared: 10/31/23 Analyzed: 11/01/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ1261-MS1)

Source: 2310455-02

Prepared: 10/31/23 Analyzed: 11/01/23

Chromium, Hexavalent 29.2 0.30 mg/kg dry 29.3 ND 99.8 75-125

Matrix Spike Dup (BGJ1261-MSD1)

Source: 2310455-02

Prepared: 10/31/23 Analyzed: 11/01/23

Chromium, Hexavalent 29.1 0.30 mg/kg dry 29.3 ND 99.4 75-125 0.402 20

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 10:41

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 BGJ1220 - General Preparation

Blank (BGJ1220-BLK1)

Prepared: 10/30/23 Analyzed: 11/04/23

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

LCS (BGJ1220-BS1)

Prepared: 10/30/23 Analyzed: 11/04/23

Calcium	5.52	0.0500	mg/L wet	5.00	110	70-130				
Magnesium	4.97	0.0500	"	5.00	99.4	70-130				
Sodium	4.90	0.0500	"	5.00	98.0	70-130				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 10:41

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

Summit Scientific

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

Batch BGJ1234 - General Preparation

Duplicate (BGJ1234-DUP1)

Source: 2310573-01

Prepared: 10/31/23 Analyzed: 11/01/23

% Solids	97.5		%		97.9			0.409		20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 10:41

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 BGJ1221 - General Preparation

Blank (BGJ1221-BLK1)

Prepared & Analyzed: 10/31/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ1221-BS1)

Prepared & Analyzed: 10/31/23

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

Duplicate (BGJ1221-DUP1)

Source: 2310504-01

Prepared & Analyzed: 10/31/23

Specific Conductance (EC) 0.145 0.0100 mmhos/cm 0.145 0.00 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/06/23 10:41

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 BGJ1222 - General Preparation

LCS (BGJ1222-BS1)

Prepared & Analyzed: 10/31/23

pH 9.02 pH Units 9.18 98.3 95-105

Duplicate (BGJ1222-DUP1)

Source: 2310504-01

Prepared & Analyzed: 10/31/23

pH 8.63 pH Units 8.63 0.00 20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/06/23 10:41

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 09, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2310604

Enclosed are the results of analyses for samples received by Summit Scientific on 10/31/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B07@10'	2310604-01	Soil	10/31/23 15:00	10/31/23 16:30

Summit Scientific

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



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

Lab ID	Page 1 of 1
2310604	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: Clynke State B36-25, Baker State B36-25
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: Clynke State B36-25, Baker State B36-25	PO/Billing Codes:
Sampler Name: Stanley Gilbert		Project Number: C022-187	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron		Metals (915)	TDS, Chloride, Sulfate	HOLD
1	B07@10'	10/31/23	15:00	2			X			X			X	X	X	X				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time: 10/31/23 16:40	Received by: Summit Namt	Date/Time: 10/31/23 16:40	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time: 10/31/23 16:30	Received by:	Date/Time: 10/31/23 16:30	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 12.6	Corrected Temperature:	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2310604

Client: Freemant

Client Project ID: Clynkestate B36-25, Bakerstate B36-12

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

Airbill #: _____

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

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

Additional Comments (if any):

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

AS

Custodian Printed Name

10/31/23

Date/Time

3
2
1



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

B07@10'
2310604-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ1270	10/31/23	10/31/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0516	129 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0347	86.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ1271	10/31/23	10/31/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.88	71.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

B07@10'
2310604-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0008	11/01/23	11/01/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
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: **10/31/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0135	40.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0157	47.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0031	11/01/23	11/07/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/23 15:00**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

B07@10'
2310604-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.47	0.200	mg/kg dry	1	BGK0063	11/02/23	11/03/23	EPA 6020B
Barium	145	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.93	0.400	"	"	"	"	"	"
Lead	11.7	0.200	"	"	"	"	"	"
Nickel	3.03	0.400	"	"	"	"	"	"
Silver	0.0457	0.0200	"	"	"	"	"	"
Zinc	9.29	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0011	11/01/23	11/02/23	EPA 7196A	

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

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	152	0.0500	mg/L dry	1	BGJ1253	10/31/23	11/03/23	EPA 6020B	
Magnesium	30.0	0.0500	"	"	"	"	"	"	
Sodium	63.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.22	0.00100	units	1	BGK0123	11/03/23	11/03/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/09/23 09:10

B07@10'
2310604-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.1		%	1	BGK0032	11/01/23	11/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.351	0.0100	mmhos/cm	1	BGK0005	11/01/23	11/02/23	EPA 120.1	

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

Date Sampled: **10/31/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BGK0006	11/01/23	11/02/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

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 BGJ1270 - EPA 5030 Soil MS

Blank (BGJ1270-BLK1)

Prepared: 10/31/23 Analyzed: 11/01/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0406		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0436		"	0.0400		109	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0422		"	0.0400		105	50-150			

LCS (BGJ1270-BS1)

Prepared: 10/31/23 Analyzed: 11/01/23

Benzene	0.111	0.0020	mg/kg	0.100		111	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.110	0.0050	"	0.100		110	70-130			
m,p-Xylene	0.216	0.010	"	0.200		108	70-130			
o-Xylene	0.106	0.0050	"	0.100		106	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
Naphthalene	0.125	0.0038	"	0.100		125	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0399		"	0.0400		99.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0373		"	0.0400		93.3	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0411		"	0.0400		103	50-150			

Matrix Spike (BGJ1270-MS1)

Source: 2310592-01

Prepared: 10/31/23 Analyzed: 11/01/23

Benzene	0.0945	0.0020	mg/kg	0.100	ND	94.5	70-130			
Toluene	0.0960	0.0050	"	0.100	ND	96.0	70-130			
Ethylbenzene	0.0866	0.0050	"	0.100	ND	86.6	70-130			
m,p-Xylene	0.169	0.010	"	0.200	ND	84.4	70-130			
o-Xylene	0.0823	0.0050	"	0.100	ND	82.3	70-130			
1,2,4-Trimethylbenzene	0.0845	0.0050	"	0.100	ND	84.5	70-130			
1,3,5-Trimethylbenzene	0.0829	0.0050	"	0.100	ND	82.9	70-130			
Naphthalene	0.120	0.0038	"	0.100	ND	120	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0443		"	0.0400		111	50-150			
<i>Surrogate: Toluene-d8</i>	0.0436		"	0.0400		109	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0411		"	0.0400		103	50-150			

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/09/23 09:10

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 BGJ1270 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ1270-MSD1)	Source: 2310592-01			Prepared: 10/31/23		Analyzed: 11/01/23				
Benzene	0.0930	0.0020	mg/kg	0.100	ND	93.0	70-130	1.66	30	
Toluene	0.101	0.0050	"	0.100	ND	101	70-130	4.76	30	
Ethylbenzene	0.0809	0.0050	"	0.100	ND	80.9	70-130	6.70	30	
m,p-Xylene	0.166	0.010	"	0.200	ND	83.2	70-130	1.38	30	
o-Xylene	0.0988	0.0050	"	0.100	ND	98.8	70-130	18.2	30	
1,2,4-Trimethylbenzene	0.0759	0.0050	"	0.100	ND	75.9	70-130	10.7	30	
1,3,5-Trimethylbenzene	0.0742	0.0050	"	0.100	ND	74.2	70-130	11.0	30	
Naphthalene	0.123	0.0038	"	0.100	ND	123	70-130	2.49	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0464</i>		<i>"</i>	<i>0.0400</i>		<i>116</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0342</i>		<i>"</i>	<i>0.0400</i>		<i>85.6</i>	<i>50-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

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 BGJ1271 - EPA 3550A

Blank (BGJ1271-BLK1)

Prepared & Analyzed: 10/31/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.8		"	12.5		110		30-150			

LCS (BGJ1271-BS1)

Prepared & Analyzed: 10/31/23

C10-C28 (DRO)	534	50	mg/kg	500		107		70-130			
Surrogate: <i>o</i> -Terphenyl	13.7		"	12.5		110		30-150			

Matrix Spike (BGJ1271-MS1)

Source: 2310592-01

Prepared: 10/31/23 Analyzed: 11/01/23

C10-C28 (DRO)	496	50	mg/kg	500	ND	99.3		70-130			
Surrogate: <i>o</i> -Terphenyl	9.76		"	12.5		78.1		30-150			

Matrix Spike Dup (BGJ1271-MSD1)

Source: 2310592-01

Prepared: 10/31/23 Analyzed: 11/01/23

C10-C28 (DRO)	475	50	mg/kg	500	ND	95.1		70-130	4.33	20	
Surrogate: <i>o</i> -Terphenyl	8.77		"	12.5		70.2		30-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

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 BGK0008 - EPA 5030 Soil MS

Blank (BGK0008-BLK1)

Prepared & Analyzed: 11/01/23

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0248</i>		"	<i>0.0333</i>		<i>74.4</i>		<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0246</i>		"	<i>0.0333</i>		<i>73.7</i>		<i>40-150</i>			

LCS (BGK0008-BS1)

Prepared & Analyzed: 11/01/23

Acenaphthene	0.0283	0.00500	mg/kg	0.0333	84.9	31-137
Anthracene	0.0254	0.00500	"	0.0333	76.3	30-120
Benzo (a) anthracene	0.0240	0.00500	"	0.0333	71.9	30-120
Benzo (a) pyrene	0.0238	0.00500	"	0.0333	71.5	30-120
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333	72.8	30-120
Benzo (k) fluoranthene	0.0243	0.00500	"	0.0333	73.0	30-120
Chrysene	0.0253	0.00500	"	0.0333	75.9	30-120
Dibenz (a,h) anthracene	0.0224	0.00500	"	0.0333	67.2	30-120
Fluoranthene	0.0261	0.00500	"	0.0333	78.3	30-120
Fluorene	0.0268	0.00500	"	0.0333	80.4	30-120
Indeno (1,2,3-cd) pyrene	0.0152	0.00500	"	0.0333	45.5	30-120
Pyrene	0.0246	0.00500	"	0.0333	73.7	35-142
1-Methylnaphthalene	0.0257	0.00500	"	0.0333	77.2	35-142
2-Methylnaphthalene	0.0265	0.00500	"	0.0333	79.4	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0268</i>		"	<i>0.0333</i>	<i>80.5</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0255</i>		"	<i>0.0333</i>	<i>76.6</i>	<i>40-150</i>

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

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 BGK0008 - EPA 5030 Soil MS

Matrix Spike (BGK0008-MS1)	Source: 2310537-01			Prepared & Analyzed: 11/01/23						
Acenaphthene	0.0141	0.00500	mg/kg	0.0333	ND	42.3	31-137			
Anthracene	0.0153	0.00500	"	0.0333	ND	46.0	30-120			
Benzo (a) anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120			
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.2	30-120			
Benzo (b) fluoranthene	0.0136	0.00500	"	0.0333	ND	40.8	30-120			
Benzo (k) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.6	30-120			
Chrysene	0.0153	0.00500	"	0.0333	ND	46.0	30-120			
Dibenz (a,h) anthracene	0.0163	0.00500	"	0.0333	ND	48.9	30-120			
Fluoranthene	0.0169	0.00500	"	0.0333	ND	50.7	30-120			
Fluorene	0.0146	0.00500	"	0.0333	ND	43.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	0.0333	ND	43.0	30-120			
Pyrene	0.0160	0.00500	"	0.0333	ND	47.9	35-142			
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.4	15-130			
2-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.8	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0157</i>		<i>"</i>	<i>0.0333</i>		<i>47.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0171</i>		<i>"</i>	<i>0.0333</i>		<i>51.4</i>	<i>40-150</i>			

Matrix Spike Dup (BGK0008-MSD1)	Source: 2310537-01			Prepared & Analyzed: 11/01/23						
Acenaphthene	0.0149	0.00500	mg/kg	0.0333	ND	44.6	31-137	5.26	30	
Anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120	1.95	30	
Benzo (a) anthracene	0.0151	0.00500	"	0.0333	ND	45.3	30-120	0.542	30	
Benzo (a) pyrene	0.0136	0.00500	"	0.0333	ND	40.7	30-120	1.15	30	
Benzo (b) fluoranthene	0.0136	0.00500	"	0.0333	ND	40.7	30-120	0.275	30	
Benzo (k) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	24.4	30	
Chrysene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	2.77	30	
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333	ND	40.7	30-120	18.4	30	
Fluoranthene	0.0157	0.00500	"	0.0333	ND	47.2	30-120	7.23	30	
Fluorene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	2.25	30	
Indeno (1,2,3-cd) pyrene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	23.4	30	
Pyrene	0.0162	0.00500	"	0.0333	ND	48.7	35-142	1.67	30	
1-Methylnaphthalene	0.0147	0.00500	"	0.0333	ND	44.1	15-130	7.03	50	
2-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND	43.6	15-130	2.71	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0153</i>		<i>"</i>	<i>0.0333</i>		<i>45.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0158</i>		<i>"</i>	<i>0.0333</i>		<i>47.5</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/09/23 09:10

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 BGK0031 - EPA 3050B

Blank (BGK0031-BLK1)

Prepared: 11/01/23 Analyzed: 11/07/23

Boron ND 2.00 mg/L

LCS (BGK0031-BS1)

Prepared: 11/01/23 Analyzed: 11/07/23

Boron 5.70 2.00 mg/L 5.00 114 80-120

Duplicate (BGK0031-DUP1)

Source: 2310490-01

Prepared: 11/01/23 Analyzed: 11/07/23

Boron 0.0934 2.00 mg/L 0.116 21.6 20 QR-01

Matrix Spike (BGK0031-MS1)

Source: 2310490-01

Prepared: 11/01/23 Analyzed: 11/07/23

Boron 5.26 2.00 mg/L 5.00 0.116 103 75-125

Matrix Spike Dup (BGK0031-MSD1)

Source: 2310490-01

Prepared: 11/01/23 Analyzed: 11/07/23

Boron 5.05 2.00 mg/L 5.00 0.116 98.6 75-125 4.12 25

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

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 BGK0063 - EPA 3050B

Blank (BGK0063-BLK1)

Prepared: 11/02/23 Analyzed: 11/03/23

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

LCS (BGK0063-BS1)

Prepared: 11/02/23 Analyzed: 11/03/23

Arsenic	44.9	0.200	mg/kg wet	40.0		112	80-120			
Barium	33.7	0.400	"	40.0		84.3	80-120			
Cadmium	1.72	0.200	"	2.00		85.9	80-120			
Copper	46.3	0.400	"	40.0		116	80-120			
Lead	17.0	0.200	"	20.0		85.2	80-120			
Nickel	46.1	0.400	"	40.0		115	80-120			
Silver	1.71	0.0200	"	2.00		85.4	80-120			
Zinc	45.4	0.400	"	40.0		114	80-120			
Selenium	4.50	0.260	"	4.00		112	80-120			

Duplicate (BGK0063-DUP1)

Source: 2309512-01

Prepared: 11/02/23 Analyzed: 11/03/23

Arsenic	0.805	0.200	mg/kg dry	0.940		15.4	20			
Barium	11.1	0.400	"	9.20		19.1	20			
Cadmium	0.0166	0.200	"	ND		200	20			QR-01
Copper	1.13	0.400	"	1.21		7.38	20			
Lead	3.44	0.200	"	3.92		13.0	20			
Nickel	1.05	0.400	"	1.27		18.7	20			
Silver	0.00393	0.0200	"	0.00393		0.00	20			
Zinc	7.31	0.400	"	8.75		17.9	20			
Selenium	ND	0.260	"	ND			20			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

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 BGK0063 - EPA 3050B

Matrix Spike (BGK0063-MS1)

Source: 2309512-01

Prepared: 11/02/23 Analyzed: 11/03/23

Arsenic	26.6	0.200	mg/kg dry	43.6	0.940	58.8	75-125				QM-07
Barium	48.1	0.400	"	43.6	9.20	89.1	75-125				
Cadmium	1.65	0.200	"	2.18	ND	75.5	75-125				
Copper	28.2	0.400	"	43.6	1.21	61.7	75-125				QM-07
Lead	20.2	0.200	"	21.8	3.92	74.7	75-125				QM-07
Nickel	27.8	0.400	"	43.6	1.27	60.7	75-125				QM-07
Silver	1.60	0.0200	"	2.18	0.00393	73.1	75-125				QM-07
Zinc	34.4	0.400	"	43.6	8.75	58.9	75-125				QM-07
Selenium	4.31	0.260	"	4.36	ND	98.6	75-125				

Matrix Spike Dup (BGK0063-MSD1)

Source: 2309512-01

Prepared: 11/02/23 Analyzed: 11/03/23

Arsenic	27.1	0.200	mg/kg dry	43.6	0.940	60.0	75-125	1.89	25		QM-07
Barium	49.1	0.400	"	43.6	9.20	91.5	75-125	2.16	25		
Cadmium	1.66	0.200	"	2.18	ND	75.9	75-125	0.555	25		
Copper	28.4	0.400	"	43.6	1.21	62.3	75-125	0.947	25		QM-07
Lead	20.5	0.200	"	21.8	3.92	75.9	75-125	1.35	25		
Nickel	28.1	0.400	"	43.6	1.27	61.6	75-125	1.33	25		QM-07
Silver	1.61	0.0200	"	2.18	0.00393	73.8	75-125	0.869	25		QM-07
Zinc	35.0	0.400	"	43.6	8.75	60.1	75-125	1.62	25		QM-07
Selenium	3.90	0.260	"	4.36	ND	89.4	75-125	9.85	25		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/09/23 09:10

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGK0011 - 3060A Mod

Blank (BGK0011-BLK1)

Prepared: 11/01/23 Analyzed: 11/02/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGK0011-BS1)

Prepared: 11/01/23 Analyzed: 11/02/23

Chromium, Hexavalent 25.9 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BGK0011-DUP1)

Source: 2310269-01

Prepared: 11/01/23 Analyzed: 11/02/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGK0011-MS1)

Source: 2310269-01

Prepared: 11/01/23 Analyzed: 11/02/23

Chromium, Hexavalent 28.1 0.30 mg/kg dry 29.7 ND 94.6 75-125

Matrix Spike Dup (BGK0011-MSD1)

Source: 2310269-01

Prepared: 11/01/23 Analyzed: 11/02/23

Chromium, Hexavalent 27.9 0.30 mg/kg dry 29.7 ND 94.0 75-125 0.636 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/09/23 09:10

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 BGJ1253 - General Preparation

Blank (BGJ1253-BLK1)

Prepared: 10/31/23 Analyzed: 11/02/23

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

LCS (BGJ1253-BS1)

Prepared: 10/31/23 Analyzed: 11/02/23

Calcium	5.01	0.0500	mg/L wet	5.00	100	70-130				
Magnesium	4.91	0.0500	"	5.00	98.2	70-130				
Sodium	4.61	0.0500	"	5.00	92.1	70-130				

Summit Scientific

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/09/23 09:10

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 BGK0032 - General Preparation

Duplicate (BGK0032-DUP1)

Source: 2309512-01

Prepared: 11/01/23 Analyzed: 11/02/23

% Solids	92.0		%		91.6			0.373	20	
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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/09/23 09:10

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 BGK0005 - General Preparation

Blank (BGK0005-BLK1)

Prepared: 11/01/23 Analyzed: 11/02/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0005-BS1)

Prepared: 11/01/23 Analyzed: 11/02/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BGK0005-DUP1)

Source: 2310490-01

Prepared: 11/01/23 Analyzed: 11/02/23

Specific Conductance (EC) 0.142 0.0100 mmhos/cm 0.142 0.00 20

Summit Scientific

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/09/23 09:10

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 BGK0006 - General Preparation

LCS (BGK0006-BS1)

Prepared: 11/01/23 Analyzed: 11/02/23

pH	9.03	pH Units	9.18	98.4	95-105
----	------	----------	------	------	--------

Duplicate (BGK0006-DUP1)

Source: 2310490-01

Prepared: 11/01/23 Analyzed: 11/02/23

pH	7.74	pH Units	7.74	0.00	20
----	------	----------	------	------	----

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/09/23 09:10

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 07, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2311020

Enclosed are the results of analyses for samples received by Summit Scientific on 11/01/23 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N04@9'	2311020-01	Soil	11/01/23 15:23	11/01/23 16:50
E01@9'	2311020-02	Soil	11/01/23 15:25	11/01/23 16:50
B09@10'	2311020-03	Soil	11/01/23 15:27	11/01/23 16:50

Summit Scientific

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

Lab ID	Page 1 of 1
2311020	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: Fremont Distribution List	Project Name/Location: Clynke State B36-25, Baker State B36-12	
City/State/Zip:		AFE#:	
Phone: 303-261-6246	Project Name: Clynke State B36-25, Baker State B36-12	PO/Billing Codes:	
Sampler Name: Stanley Gilbert	Project Number: C022-187	Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron		Metals (915)
1	N0469	11/1/23	15:23	2			X			X			X	X	X			
2	E0269	I	15:25	I			I			I			I	I	I			
3	B09610	I	15:27	I			I			I			I	I	I			
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by:	Date/Time: 11/1/23 16:50	Received by: Summit North	Date/Time: 11/1/23 16:50	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: S2	Date/Time: 11/23 16:50	Received by:	Date/Time: 11/23 16:50	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: 19.4	Corrected Temperature:	IR gun #:	1	HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 231020

Client: Fremont

Client Project ID: Clynke State B30-29 Baker State B30-12

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

Airbill #: _____

Matrix (Check all that apply)

Air

Sol/Solid

Water

Other

Temp (°C)

Thermometer #

	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"/>	OMZCE
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS

Custodian Printed Name

11/1/23
Date/Time

5 11 23



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

N04@9'
2311020-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/23 15:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0044	11/01/23	11/01/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/01/23 15:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0433	108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0479	120 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/23 15:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0045	11/01/23	11/01/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/01/23 15:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.52	60.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

N04@9'
2311020-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/23 15:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0071	11/02/23	11/03/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/01/23 15:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0197	59.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/23 15:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0060	11/02/23	11/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/23 15:23**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

N04@9'
2311020-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.40	0.200	mg/kg dry	1	BGK0134	11/03/23	11/06/23	EPA 6020B	
Barium	213	0.400	"	"	"	"	"	"	
Cadmium	0.302	0.200	"	"	"	"	"	"	
Copper	5.49	0.400	"	"	"	"	"	"	
Lead	11.0	0.200	"	"	"	"	"	"	
Nickel	4.37	0.400	"	"	"	"	"	"	
Silver	0.0764	0.0200	"	"	"	"	"	"	
Zinc	14.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/01/23 15:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0065	11/02/23	11/02/23	EPA 7196A	

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

Date Sampled: 11/01/23 15:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.7	0.0500	mg/L dry	1	BGK0043	11/01/23	11/07/23	EPA 6020B	
Magnesium	25.9	0.0500	"	"	"	"	"	"	
Sodium	156	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/01/23 15:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.49	0.00100	units	1	BGK0230	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/01/23 15:23

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/07/23 16:15

N04@9'
2311020-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	73.9	%	1	BGK0054	11/02/23	11/02/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/23 15:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.02	0.0100	mmhos/cm	1	BGK0048	11/02/23	11/02/23	EPA 120.1	

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

Date Sampled: **11/01/23 15:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BGK0047	11/02/23	11/02/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

E01@9'
2311020-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/23 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0044	11/01/23	11/01/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/23 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0446	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/23 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0045	11/01/23	11/01/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/23 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.98	47.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

E01@9'
2311020-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/23 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0071	11/02/23	11/03/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/01/23 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0153	45.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0137	41.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/23 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0060	11/02/23	11/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/23 15:25**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

E01@9'
2311020-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.92	0.200	mg/kg dry	1	BGK0134	11/03/23	11/06/23	EPA 6020B
Barium	83.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.27	0.400	"	"	"	"	"	"
Lead	10.6	0.200	"	"	"	"	"	"
Nickel	3.76	0.400	"	"	"	"	"	"
Silver	0.0504	0.0200	"	"	"	"	"	"
Zinc	12.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/01/23 15:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0065	11/02/23	11/02/23	EPA 7196A	

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

Date Sampled: 11/01/23 15:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.2	0.0500	mg/L dry	1	BGK0043	11/01/23	11/07/23	EPA 6020B	
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	57.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/01/23 15:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.51	0.00100	units	1	BGK0230	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/07/23 16:15

E01@9'
2311020-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/23 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.3		%	1	BGK0054	11/02/23	11/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/23 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.463	0.0100	mmhos/cm	1	BGK0048	11/02/23	11/02/23	EPA 120.1	

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

Date Sampled: **11/01/23 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BGK0047	11/02/23	11/02/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

B09@10'
2311020-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0044	11/01/23	11/01/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0045	11/01/23	11/01/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.24	65.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/07/23 16:15

B09@10'
2311020-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0071	11/02/23	11/03/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0197	59.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0060	11/02/23	11/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11/07/23 16:15

B09@10'
2311020-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.22	0.200	mg/kg dry	1	BGK0134	11/03/23	11/06/23	EPA 6020B
Barium	53.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.63	0.400	"	"	"	"	"	"
Lead	6.86	0.200	"	"	"	"	"	"
Nickel	3.10	0.400	"	"	"	"	"	"
Silver	0.0251	0.0200	"	"	"	"	"	"
Zinc	12.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/01/23 15:27

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0065	11/02/23	11/02/23	EPA 7196A	

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

Date Sampled: 11/01/23 15:27

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	72.2	0.0500	mg/L dry	1	BGK0043	11/01/23	11/07/23	EPA 6020B	
Magnesium	143	0.0500	"	"	"	"	"	"	
Sodium	101	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/01/23 15:27

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.58	0.00100	units	1	BGK0230	11/07/23	11/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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B09@10'
2311020-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	1	BGK0054	11/02/23	11/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.466	0.0100	mmhos/cm	1	BGK0048	11/02/23	11/02/23	EPA 120.1	

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

Date Sampled: **11/01/23 15:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BGK0047	11/02/23	11/02/23	EPA 9045D	

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

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 BGK0044 - EPA 5030 Soil MS

Blank (BGK0044-BLK1)

Prepared: 11/01/23 Analyzed: 11/02/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0364		"	0.0400		91.0	50-150			
<i>Surrogate: Toluene-d8</i>	0.0534		"	0.0400		134	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0310		"	0.0400		77.5	50-150			

LCS (BGK0044-BS1)

Prepared: 11/01/23 Analyzed: 11/02/23

Benzene	0.0973	0.0020	mg/kg	0.100		97.3	70-130			
Toluene	0.0910	0.0050	"	0.100		91.0	70-130			
Ethylbenzene	0.0853	0.0050	"	0.100		85.3	70-130			
m,p-Xylene	0.171	0.010	"	0.200		85.4	70-130			
o-Xylene	0.0874	0.0050	"	0.100		87.4	70-130			
1,2,4-Trimethylbenzene	0.0866	0.0050	"	0.100		86.6	70-130			
1,3,5-Trimethylbenzene	0.0844	0.0050	"	0.100		84.4	70-130			
Naphthalene	0.0969	0.0038	"	0.100		96.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0466		"	0.0400		116	50-150			
<i>Surrogate: Toluene-d8</i>	0.0399		"	0.0400		99.7	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0410		"	0.0400		102	50-150			

Matrix Spike (BGK0044-MS1)

Source: 2311003-01

Prepared: 11/01/23 Analyzed: 11/02/23

Benzene	0.0809	0.0020	mg/kg	0.100	ND	80.9	70-130			
Toluene	0.0760	0.0050	"	0.100	ND	76.0	70-130			
Ethylbenzene	0.0667	0.0050	"	0.100	ND	66.7	70-130			QM-07
m,p-Xylene	0.132	0.010	"	0.200	ND	66.0	70-130			QM-07
o-Xylene	0.0679	0.0050	"	0.100	ND	67.9	70-130			QM-07
1,2,4-Trimethylbenzene	0.0643	0.0050	"	0.100	ND	64.3	70-130			QM-07
1,3,5-Trimethylbenzene	0.0625	0.0050	"	0.100	ND	62.5	70-130			QM-07
Naphthalene	0.0899	0.0038	"	0.100	ND	89.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0498		"	0.0400		124	50-150			
<i>Surrogate: Toluene-d8</i>	0.0408		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0420		"	0.0400		105	50-150			

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 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/07/23 16:15

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 BGK0044 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0044-MSD1)	Source: 2311003-01			Prepared: 11/01/23 Analyzed: 11/02/23						
Benzene	0.0848	0.0020	mg/kg	0.100	ND	84.8	70-130	4.67	30	
Toluene	0.0770	0.0050	"	0.100	ND	77.0	70-130	1.29	30	
Ethylbenzene	0.0718	0.0050	"	0.100	ND	71.8	70-130	7.32	30	
m,p-Xylene	0.142	0.010	"	0.200	ND	70.9	70-130	7.25	30	
o-Xylene	0.0724	0.0050	"	0.100	ND	72.4	70-130	6.37	30	
1,2,4-Trimethylbenzene	0.0666	0.0050	"	0.100	ND	66.6	70-130	3.44	30	QM-07
1,3,5-Trimethylbenzene	0.0657	0.0050	"	0.100	ND	65.7	70-130	5.06	30	QM-07
Naphthalene	0.0895	0.0038	"	0.100	ND	89.5	70-130	0.435	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0446</i>		<i>"</i>	<i>0.0400</i>		<i>112</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

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 BGK0045 - EPA 3550A

Blank (BGK0045-BLK1)

Prepared: 11/01/23 Analyzed: 11/02/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.0		"	12.5		88.3	30-150				

LCS (BGK0045-BS1)

Prepared: 11/01/23 Analyzed: 11/02/23

C10-C28 (DRO)	379	50	mg/kg	500		75.9	70-130				
Surrogate: <i>o</i> -Terphenyl	9.54		"	12.5		76.3	30-150				

Matrix Spike (BGK0045-MS1)

Source: 2311003-01

Prepared: 11/01/23 Analyzed: 11/02/23

C10-C28 (DRO)	379	50	mg/kg	500	23.8	71.1	70-130				
Surrogate: <i>o</i> -Terphenyl	6.50		"	12.5		52.0	30-150				

Matrix Spike Dup (BGK0045-MSD1)

Source: 2311003-01

Prepared: 11/01/23 Analyzed: 11/02/23

C10-C28 (DRO)	375	50	mg/kg	500	23.8	70.3	70-130	1.10	20		
Surrogate: <i>o</i> -Terphenyl	6.74		"	12.5		53.9	30-150				

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Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

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 BGK0071 - EPA 5030 Soil MS

Blank (BGK0071-BLK1)

Prepared & Analyzed: 11/02/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0399</i>		"	<i>0.0333</i>		<i>120</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0364</i>		"	<i>0.0333</i>		<i>109</i>		<i>40-150</i>		

LCS (BGK0071-BS1)

Prepared & Analyzed: 11/02/23

Acenaphthene	0.0274	0.00500	mg/kg	0.0333		82.1		31-137		
Anthracene	0.0320	0.00500	"	0.0333		95.9		30-120		
Benzo (a) anthracene	0.0305	0.00500	"	0.0333		91.5		30-120		
Benzo (a) pyrene	0.0327	0.00500	"	0.0333		98.1		30-120		
Benzo (b) fluoranthene	0.0339	0.00500	"	0.0333		102		30-120		
Benzo (k) fluoranthene	0.0356	0.00500	"	0.0333		107		30-120		
Chrysene	0.0331	0.00500	"	0.0333		99.3		30-120		
Dibenz (a,h) anthracene	0.0271	0.00500	"	0.0333		81.3		30-120		
Fluoranthene	0.0333	0.00500	"	0.0333		99.9		30-120		
Fluorene	0.0288	0.00500	"	0.0333		86.4		30-120		
Indeno (1,2,3-cd) pyrene	0.0360	0.00500	"	0.0333		108		30-120		
Pyrene	0.0332	0.00500	"	0.0333		99.7		35-142		
1-Methylnaphthalene	0.0377	0.00500	"	0.0333		113		35-142		
2-Methylnaphthalene	0.0383	0.00500	"	0.0333		115		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0272</i>		"	<i>0.0333</i>		<i>81.5</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0317</i>		"	<i>0.0333</i>		<i>95.0</i>		<i>40-150</i>		

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

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 BGK0071 - EPA 5030 Soil MS

Matrix Spike (BGK0071-MS1)	Source: 2311003-01			Prepared & Analyzed: 11/02/23						
Acenaphthene	0.0139	0.00500	mg/kg	0.0333	ND	41.7	31-137			
Anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120			
Benzo (a) anthracene	0.0163	0.00500	"	0.0333	ND	49.0	30-120			
Benzo (a) pyrene	0.0159	0.00500	"	0.0333	ND	47.6	30-120			
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	30-120			
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.1	30-120			
Chrysene	0.0160	0.00500	"	0.0333	ND	48.1	30-120			
Dibenz (a,h) anthracene	0.0146	0.00500	"	0.0333	ND	43.8	30-120			
Fluoranthene	0.0166	0.00500	"	0.0333	ND	49.8	30-120			
Fluorene	0.0164	0.00500	"	0.0333	ND	49.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0168	0.00500	"	0.0333	ND	50.5	30-120			
Pyrene	0.0163	0.00500	"	0.0333	ND	49.0	35-142			
1-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	15-130			
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.3	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0140</i>		<i>"</i>	<i>0.0333</i>		<i>41.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0170</i>		<i>"</i>	<i>0.0333</i>		<i>50.9</i>	<i>40-150</i>			

Matrix Spike Dup (BGK0071-MSD1)	Source: 2311003-01			Prepared & Analyzed: 11/02/23						
Acenaphthene	0.0159	0.00500	mg/kg	0.0333	ND	47.8	31-137	13.5	30	
Anthracene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	11.2	30	
Benzo (a) anthracene	0.0189	0.00500	"	0.0333	ND	56.7	30-120	14.6	30	
Benzo (a) pyrene	0.0183	0.00500	"	0.0333	ND	54.9	30-120	14.3	30	
Benzo (b) fluoranthene	0.0185	0.00500	"	0.0333	ND	55.4	30-120	12.7	30	
Benzo (k) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.7	30-120	10.5	30	
Chrysene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	10.4	30	
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120	2.87	30	
Fluoranthene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	13.3	30	
Fluorene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	18.9	30	
Indeno (1,2,3-cd) pyrene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	18.2	30	
Pyrene	0.0190	0.00500	"	0.0333	ND	57.1	35-142	15.3	30	
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.2	15-130	19.0	50	
2-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.2	15-130	15.7	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0159</i>		<i>"</i>	<i>0.0333</i>		<i>47.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0196</i>		<i>"</i>	<i>0.0333</i>		<i>58.7</i>	<i>40-150</i>			

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/07/23 16:15

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 BGK0060 - EPA 3050B

Blank (BGK0060-BLK1)

Prepared: 11/02/23 Analyzed: 11/04/23

Boron ND 2.00 mg/L

LCS (BGK0060-BS1)

Prepared: 11/02/23 Analyzed: 11/04/23

Boron 4.07 2.00 mg/L 5.00 81.4 80-120

Duplicate (BGK0060-DUP1)

Source: 2310453-01

Prepared: 11/02/23 Analyzed: 11/04/23

Boron 0.739 2.00 mg/L 0.759 2.73 20

Matrix Spike (BGK0060-MS1)

Source: 2310453-01

Prepared: 11/02/23 Analyzed: 11/04/23

Boron 4.42 2.00 mg/L 5.00 0.759 73.2 75-125 QM-07

Matrix Spike Dup (BGK0060-MSD1)

Source: 2310453-01

Prepared: 11/02/23 Analyzed: 11/04/23

Boron 4.82 2.00 mg/L 5.00 0.759 81.2 75-125 8.69 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

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 BGK0134 - EPA 3050B

Blank (BGK0134-BLK1)

Prepared: 11/03/23 Analyzed: 11/06/23

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

LCS (BGK0134-BS1)

Prepared: 11/03/23 Analyzed: 11/06/23

Arsenic	41.8	0.200	mg/kg wet	40.0	105	80-120
Barium	39.3	0.400	"	40.0	98.2	80-120
Cadmium	1.90	0.200	"	2.00	95.0	80-120
Copper	45.6	0.400	"	40.0	114	80-120
Lead	23.8	0.200	"	20.0	119	80-120
Nickel	45.7	0.400	"	40.0	114	80-120
Silver	1.98	0.0200	"	2.00	99.0	80-120
Zinc	41.6	0.400	"	40.0	104	80-120
Selenium	4.04	0.260	"	4.00	101	80-120

Duplicate (BGK0134-DUP1)

Source: 2310512-01

Prepared: 11/03/23 Analyzed: 11/06/23

Arsenic	0.830	0.200	mg/kg dry	0.643	25.5	20	QR-01
Barium	283	0.400	"	143	65.9	20	QR-04
Cadmium	0.381	0.200	"	0.235	47.2	20	QR-01
Copper	4.01	0.400	"	2.35	52.2	20	QR-01
Lead	175	0.200	"	57.5	101	20	QR-04
Nickel	2.00	0.400	"	1.66	18.6	20	
Silver	0.0242	0.0200	"	0.0135	57.1	20	QR-01
Zinc	13.1	0.400	"	9.15	35.2	20	QM-04
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

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 BGK0134 - EPA 3050B

Matrix Spike (BGK0134-MS1)

Source: 2310512-01

Prepared: 11/03/23 Analyzed: 11/06/23

Arsenic	24.3	0.200	mg/kg dry	44.9	0.643	52.7	75-125				QM-07
Barium	163	0.400	"	44.9	143	45.2	75-125				QM-07
Cadmium	1.89	0.200	"	2.24	0.235	73.6	75-125				QM-07
Copper	29.3	0.400	"	44.9	2.35	60.0	75-125				QM-07
Lead	74.6	0.200	"	22.4	57.5	75.9	75-125				
Nickel	28.0	0.400	"	44.9	1.66	58.7	75-125				QM-07
Silver	1.58	0.0200	"	2.24	0.0135	69.8	75-125				QM-07
Zinc	33.9	0.400	"	44.9	9.15	55.2	75-125				QM-07
Selenium	7.04	0.260	"	4.49	ND	157	75-125				QM-07

Matrix Spike Dup (BGK0134-MSD1)

Source: 2310512-01

Prepared: 11/03/23 Analyzed: 11/06/23

Arsenic	24.4	0.200	mg/kg dry	44.9	0.643	53.0	75-125	0.597	25		QM-07
Barium	154	0.400	"	44.9	143	24.7	75-125	5.83	25		QM-07
Cadmium	1.70	0.200	"	2.24	0.235	65.4	75-125	10.3	25		QM-07
Copper	28.4	0.400	"	44.9	2.35	58.0	75-125	3.15	25		QM-07
Lead	71.2	0.200	"	22.4	57.5	60.9	75-125	4.63	25		QM-07
Nickel	27.3	0.400	"	44.9	1.66	57.2	75-125	2.42	25		QM-07
Silver	1.53	0.0200	"	2.24	0.0135	67.4	75-125	3.53	25		QM-07
Zinc	33.1	0.400	"	44.9	9.15	53.3	75-125	2.49	25		QM-07
Selenium	5.77	0.260	"	4.49	ND	129	75-125	19.8	25		QM-07

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/07/23 16:15

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGK0065 - 3060A Mod

Blank (BGK0065-BLK1)

Prepared & Analyzed: 11/02/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGK0065-BS1)

Prepared & Analyzed: 11/02/23

Chromium, Hexavalent 24.6 0.30 mg/kg wet 25.0 98.4 80-120

Duplicate (BGK0065-DUP1)

Source: 2310141-05

Prepared & Analyzed: 11/02/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGK0065-MS1)

Source: 2310141-05

Prepared & Analyzed: 11/02/23

Chromium, Hexavalent 27.5 0.30 mg/kg dry 27.6 ND 99.4 75-125

Matrix Spike Dup (BGK0065-MSD1)

Source: 2310141-05

Prepared & Analyzed: 11/02/23

Chromium, Hexavalent 27.6 0.30 mg/kg dry 27.6 ND 99.8 75-125 0.402 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/07/23 16:15

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 BGK0043 - General Preparation

Blank (BGK0043-BLK1)

Prepared: 11/01/23 Analyzed: 11/07/23

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

LCS (BGK0043-BS1)

Prepared: 11/01/23 Analyzed: 11/07/23

Calcium	5.10	0.0500	mg/L wet	5.00		102	70-130			
Magnesium	5.17	0.0500	"	5.00		103	70-130			
Sodium	5.01	0.0500	"	5.00		100	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/07/23 16:15

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 BGK0054 - General Preparation

Duplicate (BGK0054-DUP1)

Source: 2310577-01

Prepared & Analyzed: 11/02/23

% Solids	83.2		%		85.9			3.17	20	
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Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/07/23 16:15

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 BGK0048 - General Preparation

Blank (BGK0048-BLK1)

Prepared & Analyzed: 11/02/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0048-BS1)

Prepared & Analyzed: 11/02/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.9 95-105

Duplicate (BGK0048-DUP1)

Source: 2310561-01

Prepared & Analyzed: 11/02/23

Specific Conductance (EC) 0.659 0.0100 mmhos/cm 0.660 0.0303 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/07/23 16:15

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 BGK0047 - General Preparation

LCS (BGK0047-BS1)

Prepared & Analyzed: 11/02/23

pH 9.03 pH Units 9.18 98.4 95-105

Duplicate (BGK0047-DUP1)

Source: 2310561-01

Prepared & Analyzed: 11/02/23

pH 8.30 pH Units 8.30 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/07/23 16:15

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-04 Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 13, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2311049

Enclosed are the results of analyses for samples received by Summit Scientific on 11/02/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B10@10'	2311049-01	Soil	11/02/23 13:00	11/02/23 16:30
B11@10'	2311049-02	Soil	11/02/23 15:00	11/02/23 16:30
S04@9'	2311049-03	Soil	11/02/23 15:05	11/02/23 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
2311049	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: Clynhe State B36-25, Baker State B36-12
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: Clynhe State B36-25, Baker State B36-12	PO/Billing Codes:
Sampler Name: Stanley Gilbert		Project Number: C022-187	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	
1	B10 @ 10'	11/2/23	13:00	2			X			X			X	X	X	X			
2	B11 @ 10'	I	15:00	I			I			I			I	I	I	I			
3	S04 @ 9'	I	15:05	I			I			I			I	I	I	I			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 11/2/23 16:20	Received by: Summit North	Date/Time: 11/2/23 16:20	TAT Business Days	Field DO	Notes:
Relinquished by: 32	Date/Time: 11/2/23 16:30	Received by:	Date/Time: 11/2/23 16:30	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 11.1	Corrected Temperature:	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2311049

Client: Fremont

Client Project ID: Clynke State B36-25, Baker State B36-12

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

Airbill #:

Grid for shipping method selection

Matrix (Check all that apply)

Air

Air selection box

Soil/Solid

Soil/Solid selection box

Water

Water selection box

Other

Other selection box

Temp (°C)

Temp value: 11.1

Thermometer #

Thermometer #: 1

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

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

AS

Custodian Printed Name

11/2/23

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

B10@10'
2311049-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0099	11/02/23	11/02/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	0.0088	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.54	0.50		"	"	"	"	"	"	

Date Sampled: **11/02/23 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0477	119 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0406	102 %		50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0449	112 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0101	11/02/23	11/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/02/23 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	7.71	61.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

B10@10'
2311049-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0105	11/03/23	11/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0132	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0209	62.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0106	11/03/23	11/07/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 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: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

B10@10'
2311049-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.21	0.200	mg/kg dry	1	BGK0144	11/05/23	11/08/23	EPA 6020B
Barium	253	0.400	"	"	"	"	"	"
Cadmium	0.236	0.200	"	"	"	"	"	"
Copper	4.83	0.400	"	"	"	"	"	"
Lead	16.2	0.200	"	"	"	"	"	"
Nickel	2.56	0.400	"	"	"	"	"	"
Silver	0.0772	0.0200	"	"	"	"	"	"
Zinc	11.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0182	11/06/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.4	0.0500	mg/L dry	1	BGK0137	11/03/23	11/07/23	EPA 6020B	
Magnesium	9.05	0.0500	"	"	"	"	"	"	
Sodium	39.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.54	0.00100	units	1	BGK0251	11/08/23	11/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/02/23 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: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

B10@10'
2311049-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	70.5	%	1	BGK0159	11/06/23	11/06/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.206	0.0100	mmhos/cm	1	BGK0146	11/06/23	11/06/23	EPA 120.1	

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

Date Sampled: **11/02/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.47		pH Units	1	BGK0145	11/06/23	11/06/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

B11@10'
2311049-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0099	11/02/23	11/02/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.4	0.50	"	"	"	"	"	"	

Date Sampled: **11/02/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0512	128 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0482	120 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0101	11/02/23	11/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.05	64.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

B11@10'
2311049-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0105	11/03/23	11/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0189	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0106	11/03/23	11/07/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 15:00**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

B11@10'
2311049-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.32	0.200	mg/kg dry	1	BGK0144	11/05/23	11/08/23	EPA 6020B
Barium	233	0.400	"	"	"	"	"	"
Cadmium	0.235	0.200	"	"	"	"	"	"
Copper	4.76	0.400	"	"	"	"	"	"
Lead	15.1	0.200	"	"	"	"	"	"
Nickel	2.77	0.400	"	"	"	"	"	"
Silver	0.0777	0.0200	"	"	"	"	"	"
Zinc	11.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0182	11/06/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	123	0.0500	mg/L dry	1	BGK0137	11/03/23	11/07/23	EPA 6020B	
Magnesium	11.8	0.0500	"	"	"	"	"	"	
Sodium	29.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.678	0.00100	units	1	BGK0251	11/08/23	11/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/02/23 15:00

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

B11@10'
2311049-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	72.0	%	1	BGK0159	11/06/23	11/06/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.178	0.0100	mmhos/cm	1	BGK0146	11/06/23	11/06/23	EPA 120.1	

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

Date Sampled: **11/02/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.14		pH Units	1	BGK0145	11/06/23	11/06/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

S04@9'
2311049-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0099	11/02/23	11/02/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/02/23 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0502	125 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0434	108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0101	11/02/23	11/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/02/23 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.99	55.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

S04@9'
2311049-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0105	11/03/23	11/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/23 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	48.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0158	47.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0106	11/03/23	11/07/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 15:05**

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

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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

S04@9'
2311049-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.976	0.200	mg/kg dry	1	BGK0144	11/05/23	11/08/23	EPA 6020B
Barium	91.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.57	0.400	"	"	"	"	"	"
Lead	9.30	0.200	"	"	"	"	"	"
Nickel	2.68	0.400	"	"	"	"	"	"
Silver	0.0497	0.0200	"	"	"	"	"	"
Zinc	9.83	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 15:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0182	11/06/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 15:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.5	0.0500	mg/L dry	1	BGK0137	11/03/23	11/07/23	EPA 6020B	
Magnesium	10.8	0.0500	"	"	"	"	"	"	
Sodium	41.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 15:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.49	0.00100	units	1	BGK0251	11/08/23	11/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

S04@9'
2311049-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/02/23 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.0		%	1	BGK0159	11/06/23	11/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.285	0.0100	mmhos/cm	1	BGK0146	11/06/23	11/06/23	EPA 120.1	

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

Date Sampled: **11/02/23 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BGK0145	11/06/23	11/06/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

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 BGK0099 - EPA 5030 Soil MS

Blank (BGK0099-BLK1)

Prepared: 11/02/23 Analyzed: 11/03/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0496		"	0.0400		124	50-150			
<i>Surrogate: Toluene-d8</i>	0.0422		"	0.0400		106	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0421		"	0.0400		105	50-150			

LCS (BGK0099-BS1)

Prepared: 11/02/23 Analyzed: 11/03/23

Benzene	0.112	0.0020	mg/kg	0.100		112	70-130			
Toluene	0.110	0.0050	"	0.100		110	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.209	0.010	"	0.200		105	70-130			
o-Xylene	0.0952	0.0050	"	0.100		95.2	70-130			
1,2,4-Trimethylbenzene	0.0956	0.0050	"	0.100		95.6	70-130			
1,3,5-Trimethylbenzene	0.0961	0.0050	"	0.100		96.1	70-130			
Naphthalene	0.0894	0.0038	"	0.100		89.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0484		"	0.0400		121	50-150			
<i>Surrogate: Toluene-d8</i>	0.0418		"	0.0400		105	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0391		"	0.0400		97.7	50-150			

Matrix Spike (BGK0099-MS1)

Source: 2311049-01

Prepared: 11/02/23 Analyzed: 11/03/23

Benzene	0.0896	0.0020	mg/kg	0.100	ND	89.6	70-130			
Toluene	0.0832	0.0050	"	0.100	ND	83.2	70-130			
Ethylbenzene	0.0792	0.0050	"	0.100	ND	79.2	70-130			
m,p-Xylene	0.158	0.010	"	0.200	ND	79.1	70-130			
o-Xylene	0.0709	0.0050	"	0.100	ND	70.9	70-130			
1,2,4-Trimethylbenzene	0.0674	0.0050	"	0.100	ND	67.4	70-130			QM-07
1,3,5-Trimethylbenzene	0.0674	0.0050	"	0.100	ND	67.4	70-130			QM-07
Naphthalene	0.125	0.0038	"	0.100	0.00879	116	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0485		"	0.0400		121	50-150			
<i>Surrogate: Toluene-d8</i>	0.0399		"	0.0400		99.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0454		"	0.0400		114	50-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

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 BGK0099 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0099-MSD1)	Source: 2311049-01			Prepared: 11/02/23 Analyzed: 11/03/23						
Benzene	0.0746	0.0020	mg/kg	0.100	ND	74.6	70-130	18.2	30	
Toluene	0.0706	0.0050	"	0.100	ND	70.6	70-130	16.4	30	
Ethylbenzene	0.0686	0.0050	"	0.100	ND	68.6	70-130	14.5	30	QM-07
m,p-Xylene	0.136	0.010	"	0.200	ND	68.0	70-130	15.0	30	QM-07
o-Xylene	0.0624	0.0050	"	0.100	ND	62.4	70-130	12.8	30	QM-07
1,2,4-Trimethylbenzene	0.0588	0.0050	"	0.100	ND	58.8	70-130	13.6	30	QM-07
1,3,5-Trimethylbenzene	0.0585	0.0050	"	0.100	ND	58.5	70-130	14.1	30	QM-07
Naphthalene	0.112	0.0038	"	0.100	0.00879	103	70-130	10.7	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0483</i>		<i>"</i>	<i>0.0400</i>		<i>121</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0449</i>		<i>"</i>	<i>0.0400</i>		<i>112</i>	<i>50-150</i>			

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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

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 BGK0101 - EPA 3550A

Blank (BGK0101-BLK1)

Prepared: 11/02/23 Analyzed: 11/03/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	7.20		"	12.5		57.6	30-150				

LCS (BGK0101-BS1)

Prepared: 11/02/23 Analyzed: 11/03/23

C10-C28 (DRO)	411	50	mg/kg	500		82.1	70-130				
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.2	30-150				

Matrix Spike (BGK0101-MS1)

Source: 2311049-01

Prepared: 11/02/23 Analyzed: 11/03/23

C10-C28 (DRO)	416	50	mg/kg	500	11.1	81.0	70-130				
Surrogate: <i>o</i> -Terphenyl	7.57		"	12.5		60.6	30-150				

Matrix Spike Dup (BGK0101-MSD1)

Source: 2311049-01

Prepared: 11/02/23 Analyzed: 11/03/23

C10-C28 (DRO)	432	50	mg/kg	500	11.1	84.2	70-130	3.76	20		
Surrogate: <i>o</i> -Terphenyl	7.36		"	12.5		58.9	30-150				

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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

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 BGK0105 - EPA 5030 Soil MS

Blank (BGK0105-BLK1)

Prepared & Analyzed: 11/03/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0374</i>		"	<i>0.0333</i>		<i>112</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0404</i>		"	<i>0.0333</i>		<i>121</i>	<i>40-150</i>			

LCS (BGK0105-BS1)

Prepared & Analyzed: 11/03/23

Acenaphthene	0.0355	0.00500	mg/kg	0.0333	106	31-137
Anthracene	0.0335	0.00500	"	0.0333	100	30-120
Benzo (a) anthracene	0.0314	0.00500	"	0.0333	94.2	30-120
Benzo (a) pyrene	0.0350	0.00500	"	0.0333	105	30-120
Benzo (b) fluoranthene	0.0336	0.00500	"	0.0333	101	30-120
Benzo (k) fluoranthene	0.0349	0.00500	"	0.0333	105	30-120
Chrysene	0.0353	0.00500	"	0.0333	106	30-120
Dibenz (a,h) anthracene	0.0307	0.00500	"	0.0333	92.1	30-120
Fluoranthene	0.0363	0.00500	"	0.0333	109	30-120
Fluorene	0.0329	0.00500	"	0.0333	98.7	30-120
Indeno (1,2,3-cd) pyrene	0.0247	0.00500	"	0.0333	74.1	30-120
Pyrene	0.0354	0.00500	"	0.0333	106	35-142
1-Methylnaphthalene	0.0325	0.00500	"	0.0333	97.6	35-142
2-Methylnaphthalene	0.0331	0.00500	"	0.0333	99.4	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0316</i>		"	<i>0.0333</i>	<i>94.7</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0332</i>		"	<i>0.0333</i>	<i>99.5</i>	<i>40-150</i>

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Fremont Environmental
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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

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 BGK0105 - EPA 5030 Soil MS

Matrix Spike (BGK0105-MS1)

Source: 2311045-01

Prepared & Analyzed: 11/03/23

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.5	31-137			
Anthracene	0.0212	0.00500	"	0.0333	ND	63.7	30-120			
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	ND	61.6	30-120			
Benzo (a) pyrene	0.0213	0.00500	"	0.0333	ND	64.0	30-120			
Benzo (b) fluoranthene	0.0213	0.00500	"	0.0333	ND	63.9	30-120			
Benzo (k) fluoranthene	0.0224	0.00500	"	0.0333	ND	67.3	30-120			
Chrysene	0.0224	0.00500	"	0.0333	ND	67.1	30-120			
Dibenz (a,h) anthracene	0.0192	0.00500	"	0.0333	ND	57.6	30-120			
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.9	30-120			
Fluorene	0.0221	0.00500	"	0.0333	ND	66.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.8	30-120			
Pyrene	0.0222	0.00500	"	0.0333	ND	66.6	35-142			
1-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.5	15-130			
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.4	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0211		"	0.0333		63.2	40-150			
Surrogate: Fluoranthene-d10	0.0213		"	0.0333		63.9	40-150			

Matrix Spike Dup (BGK0105-MSD1)

Source: 2311045-01

Prepared & Analyzed: 11/03/23

Acenaphthene	0.0245	0.00500	mg/kg	0.0333	ND	73.4	31-137	11.5	30	
Anthracene	0.0239	0.00500	"	0.0333	ND	71.7	30-120	11.8	30	
Benzo (a) anthracene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	12.3	30	
Benzo (a) pyrene	0.0245	0.00500	"	0.0333	ND	73.6	30-120	13.9	30	
Benzo (b) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.1	30-120	14.8	30	
Benzo (k) fluoranthene	0.0256	0.00500	"	0.0333	ND	76.7	30-120	13.1	30	
Chrysene	0.0255	0.00500	"	0.0333	ND	76.5	30-120	13.0	30	
Dibenz (a,h) anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	12.7	30	
Fluoranthene	0.0251	0.00500	"	0.0333	ND	75.3	30-120	10.3	30	
Fluorene	0.0252	0.00500	"	0.0333	ND	75.6	30-120	13.0	30	
Indeno (1,2,3-cd) pyrene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	14.3	30	
Pyrene	0.0258	0.00500	"	0.0333	ND	77.5	35-142	15.1	30	
1-Methylnaphthalene	0.0246	0.00500	"	0.0333	ND	73.8	15-130	13.5	50	
2-Methylnaphthalene	0.0247	0.00500	"	0.0333	ND	74.2	15-130	15.7	50	
Surrogate: 2-Methylnaphthalene-d10	0.0246		"	0.0333		73.9	40-150			
Surrogate: Fluoranthene-d10	0.0242		"	0.0333		72.6	40-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

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 BGK0106 - EPA 3050B

Blank (BGK0106-BLK1)

Prepared: 11/03/23 Analyzed: 11/07/23

Boron ND 2.00 mg/L

LCS (BGK0106-BS1)

Prepared: 11/03/23 Analyzed: 11/07/23

Boron 4.39 2.00 mg/L 5.00 87.8 80-120

Duplicate (BGK0106-DUP1)

Source: 2310625-01

Prepared: 11/03/23 Analyzed: 11/07/23

Boron 0.191 2.00 mg/L 0.188 1.61 20

Matrix Spike (BGK0106-MS1)

Source: 2310625-01

Prepared: 11/03/23 Analyzed: 11/07/23

Boron 4.46 2.00 mg/L 5.00 0.188 85.5 75-125

Matrix Spike Dup (BGK0106-MSD1)

Source: 2310625-01

Prepared: 11/03/23 Analyzed: 11/07/23

Boron 4.75 2.00 mg/L 5.00 0.188 91.2 75-125 6.25 25

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

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 BGK0144 - EPA 3050B

Blank (BGK0144-BLK1)

Prepared: 11/05/23 Analyzed: 11/08/23

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

LCS (BGK0144-BS1)

Prepared: 11/05/23 Analyzed: 11/08/23

Arsenic	37.5	0.200	mg/kg wet	40.0	93.7	80-120				
Barium	37.6	0.400	"	40.0	94.1	80-120				
Cadmium	1.82	0.200	"	2.00	91.1	80-120				
Copper	40.7	0.400	"	40.0	102	80-120				
Lead	18.5	0.200	"	20.0	92.5	80-120				
Nickel	40.2	0.400	"	40.0	100	80-120				
Silver	1.86	0.0200	"	2.00	92.9	80-120				
Zinc	39.6	0.400	"	40.0	99.0	80-120				
Selenium	4.11	0.260	"	4.00	103	80-120				

Duplicate (BGK0144-DUP1)

Source: 2310526-21

Prepared: 11/05/23 Analyzed: 11/08/23

Arsenic	1.05	0.200	mg/kg dry	1.01	4.57	20				
Barium	36.1	0.400	"	35.7	0.925	20				QR-04
Cadmium	0.103	0.200	"	0.111	8.28	20				QR-01
Copper	2.55	0.400	"	2.58	1.05	20				
Lead	6.75	0.200	"	6.76	0.0759	20				
Nickel	3.47	0.400	"	3.53	1.57	20				
Silver	0.0191	0.0200	"	0.0214	11.5	20				
Zinc	9.97	0.400	"	10.1	1.06	20				
Selenium	ND	0.260	"	ND		20				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

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 BGK0144 - EPA 3050B

Matrix Spike (BGK0144-MS1)

Source: 2310526-21

Prepared: 11/05/23 Analyzed: 11/08/23

Arsenic	18.2	0.200	mg/kg dry	46.6	1.01	37.0	75-125				QM-07
Barium	97.0	0.400	"	46.6	35.7	131	75-125				QM-07
Cadmium	2.15	0.200	"	2.33	0.111	87.6	75-125				
Copper	20.4	0.400	"	46.6	2.58	38.2	75-125				QM-07
Lead	26.6	0.200	"	23.3	6.76	85.0	75-125				
Nickel	20.8	0.400	"	46.6	3.53	37.1	75-125				QM-07
Silver	2.10	0.0200	"	2.33	0.0214	89.1	75-125				
Zinc	27.8	0.400	"	46.6	10.1	38.1	75-125				QM-07
Selenium	4.73	0.260	"	4.66	ND	101	75-125				

Matrix Spike Dup (BGK0144-MSD1)

Source: 2310526-21

Prepared: 11/05/23 Analyzed: 11/08/23

Arsenic	18.7	0.200	mg/kg dry	46.6	1.01	38.0	75-125	2.73	25		QM-07
Barium	101	0.400	"	46.6	35.7	139	75-125	3.63	25		QM-07
Cadmium	2.23	0.200	"	2.33	0.111	90.7	75-125	3.30	25		
Copper	21.0	0.400	"	46.6	2.58	39.5	75-125	2.88	25		QM-07
Lead	27.5	0.200	"	23.3	6.76	89.1	75-125	3.47	25		
Nickel	21.2	0.400	"	46.6	3.53	38.0	75-125	1.82	25		QM-07
Silver	2.20	0.0200	"	2.33	0.0214	93.3	75-125	4.56	25		
Zinc	28.4	0.400	"	46.6	10.1	39.3	75-125	1.99	25		QM-07
Selenium	4.66	0.260	"	4.66	ND	100	75-125	1.42	25		

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 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

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 BGK0182 - 3060A Mod

Blank (BGK0182-BLK1)

Prepared: 11/06/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGK0182-BS1)

Prepared: 11/06/23 Analyzed: 11/13/23

Chromium, Hexavalent 26.8 0.30 mg/kg wet 25.0 107 80-120

Duplicate (BGK0182-DUP1)

Source: 2311045-01

Prepared: 11/06/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGK0182-MS1)

Source: 2311045-01

Prepared: 11/06/23 Analyzed: 11/13/23

Chromium, Hexavalent 26.4 0.30 mg/kg dry 25.5 ND 104 75-125

Matrix Spike Dup (BGK0182-MSD1)

Source: 2311045-01

Prepared: 11/06/23 Analyzed: 11/13/23

Chromium, Hexavalent 26.1 0.30 mg/kg dry 25.5 ND 102 75-125 1.17 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

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 BGK0137 - General Preparation

Blank (BGK0137-BLK1)

Prepared: 11/03/23 Analyzed: 11/07/23

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

LCS (BGK0137-BS1)

Prepared: 11/03/23 Analyzed: 11/07/23

Calcium	4.29	0.0500	mg/L wet	5.00	85.9	70-130				
Magnesium	5.23	0.0500	"	5.00	105	70-130				
Sodium	5.29	0.0500	"	5.00	106	70-130				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

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 BGK0159 - General Preparation

Duplicate (BGK0159-DUP1)

Source: 2310557-01

Prepared & Analyzed: 11/06/23

% Solids	80.5		%		82.3			2.22	20	
----------	------	--	---	--	------	--	--	------	----	--

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

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 BGK0146 - General Preparation

Blank (BGK0146-BLK1)

Prepared & Analyzed: 11/06/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0146-BS1)

Prepared & Analyzed: 11/06/23

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

Duplicate (BGK0146-DUP1)

Source: 2310585-01

Prepared & Analyzed: 11/06/23

Specific Conductance (EC) 1.74 0.0100 mmhos/cm 1.74 0.00 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:19

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 BGK0145 - General Preparation

LCS (BGK0145-BS1)

Prepared & Analyzed: 11/06/23

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

Duplicate (BGK0145-DUP1)

Source: 2310585-01

Prepared & Analyzed: 11/06/23

pH	7.64	pH Units	7.64	0.00	20
----	------	----------	------	------	----

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:19

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 13, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2311092

Enclosed are the results of analyses for samples received by Summit Scientific on 11/03/23 15:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B10@10.5'	2311092-01	Soil	11/03/23 14:30	11/03/23 15:50

Summit Scientific

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

Lab ID	Page 1 of 1
2311092	

	Send Data To:	Send Invoice To:
Client: Fremont Environmental	Project Manager: Paul Henchan	Company: Noble
Address:	E-Mail: Fremont Distribution List	Project Name/Location: Clynke State B36-25, Baker State B36-12
City/State/Zip:		AFE#:
Phone: 303-261-6246	Project Name: Clynke State B36-25, Baker State B36-12	PO/Billing Codes:
Sampler Name: Stanley Gilbert	Project Number: C022-187	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	B10 @ 10.5'	11/3/23	14:30	2			X			X			X	X	X	X			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 11/3/23 15:50	Received by: Summit North	Date/Time: 11/3/23 15:50	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	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: 12.4	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2311092

Client: Fremont

Client Project ID: Clynkestate B30-25 Bakerstate B36-12

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

Airbill #:

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

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

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

AS

Custodian Printed Name

11/3/23

Date/Time

4 4 4



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:28

B10@10.5'
2311092-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/23 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0140	11/03/23	11/03/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/03/23 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0500	125 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/03/23 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0141	11/03/23	11/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/03/23 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.98	55.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:28

B10@10.5'
2311092-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/03/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0153	11/06/23	11/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/03/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	53.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0191	57.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/03/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0161	11/06/23	11/08/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/03/23 14:30**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:28

B10@10.5'
2311092-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.637	0.200	mg/kg dry	1	BGK0203	11/07/23	11/08/23	EPA 6020B	
Barium	14.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.770	0.400	"	"	"	"	"	"	
Lead	1.88	0.200	"	"	"	"	"	"	
Nickel	0.589	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	3.48	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/03/23 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0183	11/06/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/03/23 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.6	0.0500	mg/L dry	1	BGK0171	11/06/23	11/08/23	EPA 6020B	
Magnesium	7.13	0.0500	"	"	"	"	"	"	
Sodium	42.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/03/23 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.17	0.00100	units	1	BGK0345	11/09/23	11/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:28

B10@10.5'
2311092-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/03/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.1		%	1	BGK0159	11/06/23	11/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/03/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.366	0.0100	mmhos/cm	1	BGK0191	11/07/23	11/07/23	EPA 120.1	

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

Date Sampled: **11/03/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BGK0190	11/07/23	11/07/23	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:28

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 BGK0140 - EPA 5030 Soil MS

Blank (BGK0140-BLK1)

Prepared & Analyzed: 11/03/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0495		"	0.0400		124	50-150			
<i>Surrogate: Toluene-d8</i>	0.0413		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0414		"	0.0400		104	50-150			

LCS (BGK0140-BS1)

Prepared & Analyzed: 11/03/23

Benzene	0.124	0.0020	mg/kg	0.100		124	70-130			
Toluene	0.121	0.0050	"	0.100		121	70-130			
Ethylbenzene	0.124	0.0050	"	0.100		124	70-130			
m,p-Xylene	0.247	0.010	"	0.200		124	70-130			
o-Xylene	0.107	0.0050	"	0.100		107	70-130			
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
Naphthalene	0.0922	0.0038	"	0.100		92.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0482		"	0.0400		120	50-150			
<i>Surrogate: Toluene-d8</i>	0.0417		"	0.0400		104	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0381		"	0.0400		95.3	50-150			

Matrix Spike (BGK0140-MS1)

Source: 2311092-01

Prepared & Analyzed: 11/03/23

Benzene	0.116	0.0020	mg/kg	0.100	ND	116	70-130			
Toluene	0.115	0.0050	"	0.100	ND	115	70-130			
Ethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130			
m,p-Xylene	0.222	0.010	"	0.200	ND	111	70-130			
o-Xylene	0.0954	0.0050	"	0.100	ND	95.4	70-130			
1,2,4-Trimethylbenzene	0.0993	0.0050	"	0.100	ND	99.3	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
Naphthalene	0.0927	0.0038	"	0.100	ND	92.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0490		"	0.0400		122	50-150			
<i>Surrogate: Toluene-d8</i>	0.0411		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0396		"	0.0400		98.9	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:28

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 BGK0140 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0140-MSD1)	Source: 2311092-01			Prepared & Analyzed: 11/03/23						
Benzene	0.115	0.0020	mg/kg	0.100	ND	115	70-130	0.467	30	
Toluene	0.112	0.0050	"	0.100	ND	112	70-130	1.93	30	
Ethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130	1.87	30	
m,p-Xylene	0.227	0.010	"	0.200	ND	113	70-130	2.18	30	
o-Xylene	0.0978	0.0050	"	0.100	ND	97.8	70-130	2.48	30	
1,2,4-Trimethylbenzene	0.0998	0.0050	"	0.100	ND	99.8	70-130	0.542	30	
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	1.97	30	
Naphthalene	0.0915	0.0038	"	0.100	ND	91.5	70-130	1.30	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0493</i>		<i>"</i>	<i>0.0400</i>		<i>123</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.5</i>	<i>50-150</i>			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:28

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 BGK0141 - EPA 3550A

Blank (BGK0141-BLK1)

Prepared & Analyzed: 11/03/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.8	30-150				

LCS (BGK0141-BS1)

Prepared & Analyzed: 11/03/23

C10-C28 (DRO)	528	50	mg/kg	500		106	70-130				
Surrogate: <i>o</i> -Terphenyl	10.1		"	12.5		80.5	30-150				

Matrix Spike (BGK0141-MS1)

Source: 2311092-01

Prepared & Analyzed: 11/03/23

C10-C28 (DRO)	525	50	mg/kg	500	20.8	101	70-130				
Surrogate: <i>o</i> -Terphenyl	7.14		"	12.5		57.1	30-150				

Matrix Spike Dup (BGK0141-MSD1)

Source: 2311092-01

Prepared & Analyzed: 11/03/23

C10-C28 (DRO)	543	50	mg/kg	500	20.8	104	70-130	3.39	20		
Surrogate: <i>o</i> -Terphenyl	7.64		"	12.5		61.1	30-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:28

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGK0153 - EPA 5030 Soil MS

Blank (BGK0153-BLK1)

Prepared & Analyzed: 11/06/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0314</i>		"	<i>0.0333</i>		<i>94.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0312</i>		"	<i>0.0333</i>		<i>93.5</i>	<i>40-150</i>			

LCS (BGK0153-BS1)

Prepared & Analyzed: 11/06/23

Acenaphthene	0.0288	0.00500	mg/kg	0.0333	86.5	31-137
Anthracene	0.0287	0.00500	"	0.0333	86.0	30-120
Benzo (a) anthracene	0.0285	0.00500	"	0.0333	85.5	30-120
Benzo (a) pyrene	0.0286	0.00500	"	0.0333	85.9	30-120
Benzo (b) fluoranthene	0.0290	0.00500	"	0.0333	86.9	30-120
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333	84.7	30-120
Chrysene	0.0294	0.00500	"	0.0333	88.2	30-120
Dibenz (a,h) anthracene	0.0268	0.00500	"	0.0333	80.3	30-120
Fluoranthene	0.0288	0.00500	"	0.0333	86.4	30-120
Fluorene	0.0297	0.00500	"	0.0333	89.0	30-120
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333	62.1	30-120
Pyrene	0.0288	0.00500	"	0.0333	86.5	35-142
1-Methylnaphthalene	0.0303	0.00500	"	0.0333	90.8	35-142
2-Methylnaphthalene	0.0279	0.00500	"	0.0333	83.7	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0297</i>		"	<i>0.0333</i>	<i>89.0</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0296</i>		"	<i>0.0333</i>	<i>88.7</i>	<i>40-150</i>

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:28

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 BGK0153 - EPA 5030 Soil MS

Matrix Spike (BGK0153-MS1)

Source: 2311091-01

Prepared & Analyzed: 11/06/23

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.5	31-137			
Anthracene	0.0201	0.00500	"	0.0333	ND	60.3	30-120			
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	ND	62.0	30-120			
Benzo (a) pyrene	0.0204	0.00500	"	0.0333	ND	61.1	30-120			
Benzo (b) fluoranthene	0.0207	0.00500	"	0.0333	ND	62.2	30-120			
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333	ND	60.3	30-120			
Chrysene	0.0212	0.00500	"	0.0333	ND	63.5	30-120			
Dibenz (a,h) anthracene	0.0182	0.00500	"	0.0333	ND	54.6	30-120			
Fluoranthene	0.0201	0.00500	"	0.0333	ND	60.3	30-120			
Fluorene	0.0203	0.00500	"	0.0333	ND	60.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0152	0.00500	"	0.0333	ND	45.7	30-120			
Pyrene	0.0215	0.00500	"	0.0333	ND	64.6	35-142			
1-Methylnaphthalene	0.0204	0.00500	"	0.0333	ND	61.2	15-130			
2-Methylnaphthalene	0.0203	0.00500	"	0.0333	ND	60.9	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0206		"	0.0333		61.9	40-150			
Surrogate: Fluoranthene-d10	0.0211		"	0.0333		63.2	40-150			

Matrix Spike Dup (BGK0153-MSD1)

Source: 2311091-01

Prepared & Analyzed: 11/06/23

Acenaphthene	0.0177	0.00500	mg/kg	0.0333	ND	53.1	31-137	20.9	30
Anthracene	0.0172	0.00500	"	0.0333	ND	51.6	30-120	15.6	30
Benzo (a) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	17.7	30
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	19.5	30
Benzo (b) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	19.7	30
Benzo (k) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.1	30-120	20.5	30
Chrysene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	17.5	30
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	18.0	30
Fluoranthene	0.0175	0.00500	"	0.0333	ND	52.6	30-120	13.7	30
Fluorene	0.0162	0.00500	"	0.0333	ND	48.7	30-120	22.1	30
Indeno (1,2,3-cd) pyrene	0.0126	0.00500	"	0.0333	ND	37.7	30-120	19.1	30
Pyrene	0.0177	0.00500	"	0.0333	ND	53.2	35-142	19.4	30
1-Methylnaphthalene	0.0172	0.00500	"	0.0333	ND	51.5	15-130	17.3	50
2-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	15-130	18.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.4	40-150		
Surrogate: Fluoranthene-d10	0.0185		"	0.0333		55.5	40-150		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:28

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 BGK0161 - EPA 3050B

Blank (BGK0161-BLK1)

Prepared: 11/06/23 Analyzed: 11/07/23

Boron ND 2.00 mg/L

LCS (BGK0161-BS1)

Prepared: 11/06/23 Analyzed: 11/07/23

Boron 4.75 2.00 mg/L 5.00 94.9 80-120

Duplicate (BGK0161-DUP1)

Source: 2310269-01

Prepared: 11/06/23 Analyzed: 11/08/23

Boron 0.151 2.00 mg/L 0.186 20.8 20 QR-01

Matrix Spike (BGK0161-MS1)

Source: 2310269-01

Prepared: 11/06/23 Analyzed: 11/08/23

Boron 4.80 2.00 mg/L 5.00 0.186 92.2 75-125

Matrix Spike Dup (BGK0161-MSD1)

Source: 2310269-01

Prepared: 11/06/23 Analyzed: 11/08/23

Boron 4.82 2.00 mg/L 5.00 0.186 92.7 75-125 0.545 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:28

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 BGK0203 - EPA 3050B

Blank (BGK0203-BLK1)

Prepared: 11/07/23 Analyzed: 11/08/23

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

LCS (BGK0203-BS1)

Prepared: 11/07/23 Analyzed: 11/08/23

Arsenic	39.4	0.200	mg/kg wet	40.0	98.5	80-120
Barium	40.2	0.400	"	40.0	101	80-120
Cadmium	1.99	0.200	"	2.00	99.3	80-120
Copper	41.6	0.400	"	40.0	104	80-120
Lead	19.9	0.200	"	20.0	99.5	80-120
Nickel	40.2	0.400	"	40.0	101	80-120
Silver	1.95	0.0200	"	2.00	97.3	80-120
Zinc	40.1	0.400	"	40.0	100	80-120
Selenium	4.45	0.260	"	4.00	111	80-120

Duplicate (BGK0203-DUP1)

Source: 2310553-01

Prepared: 11/07/23 Analyzed: 11/08/23

Arsenic	1.12	0.200	mg/kg dry	1.22	8.34	20	
Barium	86.8	0.400	"	128	38.6	20	QR-04
Cadmium	0.197	0.200	"	0.176	10.9	20	
Copper	1.67	0.400	"	1.78	6.06	20	
Lead	5.52	0.200	"	6.10	9.90	20	
Nickel	1.69	0.400	"	1.79	5.85	20	
Silver	0.0221	0.0200	"	0.0190	15.1	20	
Zinc	5.77	0.400	"	5.79	0.283	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:28

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 BGK0203 - EPA 3050B

Matrix Spike (BGK0203-MS1)

Source: 2310553-01

Prepared: 11/07/23 Analyzed: 11/08/23

Arsenic	15.9	0.200	mg/kg dry	44.1	1.22	33.3	75-125				QM-07
Barium	130	0.400	"	44.1	128	4.08	75-125				QM-07
Cadmium	2.21	0.200	"	2.21	0.176	92.3	75-125				
Copper	17.7	0.400	"	44.1	1.78	36.2	75-125				QM-07
Lead	24.7	0.200	"	22.1	6.10	84.4	75-125				
Nickel	17.3	0.400	"	44.1	1.79	35.1	75-125				QM-07
Silver	1.98	0.0200	"	2.21	0.0190	88.8	75-125				
Zinc	21.5	0.400	"	44.1	5.79	35.5	75-125				QM-07
Selenium	4.06	0.260	"	4.41	ND	92.0	75-125				

Matrix Spike Dup (BGK0203-MSD1)

Source: 2310553-01

Prepared: 11/07/23 Analyzed: 11/08/23

Arsenic	15.3	0.200	mg/kg dry	44.1	1.22	31.9	75-125	3.87	25		QM-07
Barium	118	0.400	"	44.1	128	NR	75-125	10.0	25		QM-07
Cadmium	2.03	0.200	"	2.21	0.176	84.0	75-125	8.57	25		
Copper	17.0	0.400	"	44.1	1.78	34.4	75-125	4.37	25		QM-07
Lead	22.4	0.200	"	22.1	6.10	73.8	75-125	9.90	25		QM-07
Nickel	16.7	0.400	"	44.1	1.79	33.8	75-125	3.51	25		QM-07
Silver	1.80	0.0200	"	2.21	0.0190	80.8	75-125	9.25	25		
Zinc	20.7	0.400	"	44.1	5.79	33.7	75-125	3.80	25		QM-07
Selenium	3.91	0.260	"	4.41	ND	88.6	75-125	3.73	25		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:28

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGK0183 - 3060A Mod

Blank (BGK0183-BLK1)

Prepared: 11/06/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGK0183-BS1)

Prepared: 11/06/23 Analyzed: 11/13/23

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

Duplicate (BGK0183-DUP1)

Source: 2310585-01

Prepared: 11/06/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND ND 20

Matrix Spike (BGK0183-MS1)

Source: 2310585-01

Prepared: 11/06/23 Analyzed: 11/13/23

Chromium, Hexavalent 29.5 0.30 mg/kg dry 28.8 ND 102 75-125

Matrix Spike Dup (BGK0183-MSD1)

Source: 2310585-01

Prepared: 11/06/23 Analyzed: 11/13/23

Chromium, Hexavalent 28.9 0.30 mg/kg dry 28.8 ND 100 75-125 2.17 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:28

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 BGK0171 - General Preparation

Blank (BGK0171-BLK1)

Prepared: 11/06/23 Analyzed: 11/08/23

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

LCS (BGK0171-BS1)

Prepared: 11/06/23 Analyzed: 11/08/23

Calcium	4.72	0.0500	mg/L wet	5.00	94.5	70-130				
Magnesium	5.09	0.0500	"	5.00	102	70-130				
Sodium	5.44	0.0500	"	5.00	109	70-130				

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:28

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 BGK0159 - General Preparation

Duplicate (BGK0159-DUP1)

Source: 2310557-01

Prepared & Analyzed: 11/06/23

% Solids	80.5		%		82.3			2.22	20	
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Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:28

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 BGK0191 - General Preparation

Blank (BGK0191-BLK1)

Prepared & Analyzed: 11/07/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0191-BS1)

Prepared & Analyzed: 11/07/23

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGK0191-DUP1)

Source: 2310582-01

Prepared & Analyzed: 11/07/23

Specific Conductance (EC) 0.0446 0.0100 mmhos/cm 0.0446 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/13/23 16:28

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 BGK0190 - General Preparation

LCS (BGK0190-BS1)

Prepared & Analyzed: 11/07/23

pH	9.07	pH Units	9.18	98.8	95-105
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Duplicate (BGK0190-DUP1)

Source: 2310582-01

Prepared & Analyzed: 11/07/23

pH	6.77	pH Units	6.77	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/13/23 16:28

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 17, 2024

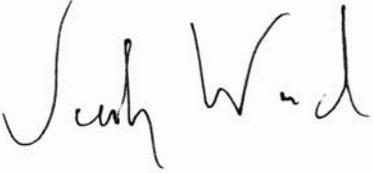
Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2311113

Enclosed are the results of analyses for samples received by Summit Scientific on 11/06/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a long horizontal stroke at the end.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
01/17/24 15:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N05@9'	2311113-01	Soil	11/06/23 13:05	11/06/23 16:30
B11@10'	2311113-02	Soil	11/06/23 13:07	11/06/23 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
231113	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: Lynke State B36-25, Baker State B36-12
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: Lynke State B36-25, Baker State B36-12	PO/Billing Codes:
Sampler Name: Stanley Gilbert		Project Number: C022-187	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	N05@9'	11/6/23	13:05	2			X			X			X	X	X	X	X		
2	B12@10'	11/6/23	13:07	2			X			X			X	X	X	X	X		
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 11/6/23 15:50	Received by: Summit North	Date/Time: 11/6/23 15:50	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time: 11/6/23 16:30	Received by:	Date/Time: 11/6/23 16:30	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 9.0	Corrected Temperature:	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
01/17/24 15:45

N05@9'
2311113-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/06/23 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0189	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/06/23 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0475	119 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0422	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0432	108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/06/23 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0188	11/06/23	11/06/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/06/23 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.06	64.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
01/17/24 15:45

N05@9'
2311113-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/06/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0197	11/07/23	11/08/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/06/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0177	53.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/06/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0216	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/06/23 13:05**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
01/17/24 15:45

N05@9'
2311113-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	8.35	0.200	mg/kg dry	1	BGK0266	11/08/23	11/08/23	EPA 6020B
Barium	224	0.400	"	"	"	"	"	"
Cadmium	0.448	0.200	"	"	"	"	"	"
Copper	12.5	0.400	"	"	"	"	"	"
Lead	21.1	0.200	"	"	"	"	"	"
Nickel	7.24	0.400	"	"	"	"	"	"
Silver	0.110	0.0200	"	"	"	"	"	"
Zinc	30.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/06/23 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0233	11/07/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/06/23 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.6	0.0500	mg/L dry	1	BGK0218	11/07/23	11/09/23	EPA 6020B	
Magnesium	5.38	0.0500	"	"	"	"	"	"	
Sodium	32.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/06/23 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.22	0.00100	units	1	BGK0494	11/14/23	11/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/06/23 13:05

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

N05@9'
2311113-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	74.0	%	1	BGK0222	11/07/23	11/07/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/06/23 13:05**

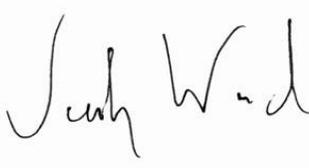
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.272	0.0100	mmhos/cm	1	BGK0263	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/06/23 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.74		pH Units	1	BGK0264	11/08/23	11/08/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
01/17/24 15:45

B11@10'
2311113-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/06/23 13:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0189	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/06/23 13:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0480	120 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0426	106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/06/23 13:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0188	11/06/23	11/06/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/06/23 13:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.68	77.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: CO22-187
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Reported:
01/17/24 15:45

B11@10'
2311113-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/06/23 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0197	11/07/23	11/08/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/06/23 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/06/23 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0216	11/07/23	11/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/06/23 13:07**

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

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
01/17/24 15:45

B11@10'
2311113-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.32	0.200	mg/kg dry	1	BGK0266	11/08/23	11/08/23	EPA 6020B
Barium	70.5	0.400	"	"	"	"	"	"
Cadmium	0.208	0.200	"	"	"	"	"	"
Copper	5.37	0.400	"	"	"	"	"	"
Lead	9.38	0.200	"	"	"	"	"	"
Nickel	4.39	0.400	"	"	"	"	"	"
Silver	0.0362	0.0200	"	"	"	"	"	"
Zinc	22.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/06/23 13:07

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0233	11/07/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/06/23 13:07

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	200	0.0500	mg/L dry	1	BGK0218	11/07/23	11/09/23	EPA 6020B	
Magnesium	27.3	0.0500	"	"	"	"	"	"	
Sodium	21.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/06/23 13:07

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.375	0.00100	units	1	BGK0494	11/14/23	11/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/06/23 13:07

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

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Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

B11@10'
2311113-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.8	%	1	BGK0222	11/07/23	11/07/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/06/23 13:07**

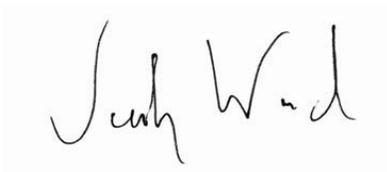
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.178	0.0100	mmhos/cm	1	BGK0263	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/06/23 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.28		pH Units	1	BGK0264	11/08/23	11/08/23	EPA 9045D	

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
01/17/24 15:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGK0189 - EPA 5030 Soil MS

Blank (BGK0189-BLK1)

Prepared: 11/06/23 Analyzed: 11/07/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0485</i>		<i>"</i>	<i>0.0400</i>		<i>121</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0416</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0424</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			

LCS (BGK0189-BS1)

Prepared: 11/06/23 Analyzed: 11/07/23

Benzene	0.103	0.0020	mg/kg	0.100		103	70-130			
Toluene	0.115	0.0050	"	0.100		115	70-130			
Ethylbenzene	0.0917	0.0050	"	0.100		91.7	70-130			
m,p-Xylene	0.192	0.010	"	0.200		96.2	70-130			
o-Xylene	0.0929	0.0050	"	0.100		92.9	70-130			
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
Naphthalene	0.109	0.0038	"	0.100		109	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0472</i>		<i>"</i>	<i>0.0400</i>		<i>118</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			

Matrix Spike (BGK0189-MS1)

Source: 2311111-01

Prepared: 11/06/23 Analyzed: 11/07/23

Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130			
Toluene	0.104	0.0050	"	0.100	ND	104	70-130			
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130			
m,p-Xylene	0.188	0.010	"	0.200	ND	94.1	70-130			
o-Xylene	0.116	0.0050	"	0.100	ND	116	70-130			
1,2,4-Trimethylbenzene	0.0958	0.0050	"	0.100	ND	95.8	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100	0.00453	99.3	70-130			
Naphthalene	0.102	0.0038	"	0.100	ND	102	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0492</i>		<i>"</i>	<i>0.0400</i>		<i>123</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0461</i>		<i>"</i>	<i>0.0400</i>		<i>115</i>	<i>50-150</i>			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

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		

Batch BGK0189 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0189-MSD1)	Source: 2311111-01			Prepared: 11/06/23 Analyzed: 11/07/23						
Benzene	0.0977	0.0020	mg/kg	0.100	ND	97.7	70-130	7.33	30	
Toluene	0.0953	0.0050	"	0.100	ND	95.3	70-130	8.96	30	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	7.10	30	
m,p-Xylene	0.175	0.010	"	0.200	ND	87.7	70-130	7.01	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	10.6	30	
1,2,4-Trimethylbenzene	0.118	0.0050	"	0.100	ND	118	70-130	20.5	30	
1,3,5-Trimethylbenzene	0.0884	0.0050	"	0.100	0.00453	83.9	70-130	16.1	30	
Naphthalene	0.0959	0.0038	"	0.100	ND	95.9	70-130	5.95	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0508</i>		<i>"</i>	<i>0.0400</i>		<i>127</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0500</i>		<i>"</i>	<i>0.0400</i>		<i>125</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

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 BGK0188 - EPA 3550A

Blank (BGK0188-BLK1)

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.1		"	12.5		89.0	30-150				

LCS (BGK0188-BS1)

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	448	50	mg/kg	500		89.6	70-130				
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5		83.9	30-150				

Matrix Spike (BGK0188-MS1)

Source: 2311111-01

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	440	50	mg/kg	500	406	6.90	70-130				QM-07
Surrogate: <i>o</i> -Terphenyl	5.36		"	12.5		42.9	30-150				

Matrix Spike Dup (BGK0188-MSD1)

Source: 2311111-01

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	389	50	mg/kg	500	406	NR	70-130	12.3	20		QM-07
Surrogate: <i>o</i> -Terphenyl	5.37		"	12.5		42.9	30-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
01/17/24 15:45

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 BGK0197 - EPA 5030 Soil MS

Blank (BGK0197-BLK1)

Prepared & Analyzed: 11/07/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0375</i>		<i>"</i>	<i>0.0333</i>		<i>113</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0371</i>		<i>"</i>	<i>0.0333</i>		<i>111</i>	<i>40-150</i>			

LCS (BGK0197-BS1)

Prepared & Analyzed: 11/07/23

Acenaphthene	0.0290	0.00500	mg/kg	0.0333		87.1	31-137			
Anthracene	0.0320	0.00500	"	0.0333		96.0	30-120			
Benzo (a) anthracene	0.0319	0.00500	"	0.0333		95.7	30-120			
Benzo (a) pyrene	0.0293	0.00500	"	0.0333		88.0	30-120			
Benzo (b) fluoranthene	0.0301	0.00500	"	0.0333		90.3	30-120			
Benzo (k) fluoranthene	0.0300	0.00500	"	0.0333		90.1	30-120			
Chrysene	0.0316	0.00500	"	0.0333		94.7	30-120			
Dibenz (a,h) anthracene	0.0255	0.00500	"	0.0333		76.4	30-120			
Fluoranthene	0.0325	0.00500	"	0.0333		97.5	30-120			
Fluorene	0.0267	0.00500	"	0.0333		80.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0186	0.00500	"	0.0333		55.9	30-120			
Pyrene	0.0317	0.00500	"	0.0333		95.0	35-142			
1-Methylnaphthalene	0.0323	0.00500	"	0.0333		96.9	35-142			
2-Methylnaphthalene	0.0317	0.00500	"	0.0333		95.0	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0340</i>		<i>"</i>	<i>0.0333</i>		<i>102</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0335</i>		<i>"</i>	<i>0.0333</i>		<i>100</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
01/17/24 15:45

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 BGK0197 - EPA 5030 Soil MS

Matrix Spike (BGK0197-MS1)

Source: 2311066-04

Prepared & Analyzed: 11/07/23

Acenaphthene	0.0145	0.00500	mg/kg	0.0333	ND	43.5	31-137			
Anthracene	0.0139	0.00500	"	0.0333	ND	41.8	30-120			
Benzo (a) anthracene	0.0147	0.00500	"	0.0333	ND	44.1	30-120			
Benzo (a) pyrene	0.0152	0.00500	"	0.0333	ND	45.5	30-120			
Benzo (b) fluoranthene	0.0134	0.00500	"	0.0333	ND	40.2	30-120			
Benzo (k) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.8	30-120			
Chrysene	0.0145	0.00500	"	0.0333	ND	43.4	30-120			
Dibenz (a,h) anthracene	0.0141	0.00500	"	0.0333	ND	42.4	30-120			
Fluoranthene	0.0142	0.00500	"	0.0333	ND	42.7	30-120			
Fluorene	0.0151	0.00500	"	0.0333	ND	45.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0138	0.00500	"	0.0333	ND	41.4	30-120			
Pyrene	0.0142	0.00500	"	0.0333	ND	42.7	35-142			
1-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.3	15-130			
2-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0146		"	0.0333		43.9	40-150			
Surrogate: Fluoranthene-d10	0.0146		"	0.0333		43.7	40-150			

Matrix Spike Dup (BGK0197-MSD1)

Source: 2311066-04

Prepared & Analyzed: 11/07/23

Acenaphthene	0.0164	0.00500	mg/kg	0.0333	ND	49.3	31-137	12.4	30
Anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	17.7	30
Benzo (a) anthracene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	16.8	30
Benzo (a) pyrene	0.0151	0.00500	"	0.0333	ND	45.4	30-120	0.266	30
Benzo (b) fluoranthene	0.0151	0.00500	"	0.0333	ND	45.3	30-120	12.0	30
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	1.69	30
Chrysene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	15.9	30
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.0	30-120	3.49	30
Fluoranthene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	18.0	30
Fluorene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	11.6	30
Indeno (1,2,3-cd) pyrene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	16.7	30
Pyrene	0.0169	0.00500	"	0.0333	ND	50.6	35-142	16.9	30
1-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	42.1	15-130	9.60	50
2-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.3	15-130	3.82	50
Surrogate: 2-Methylnaphthalene-d10	0.0151		"	0.0333		45.2	40-150		
Surrogate: Fluoranthene-d10	0.0174		"	0.0333		52.1	40-150		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

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 BGK0216 - EPA 3050B

Blank (BGK0216-BLK1)

Prepared: 11/07/23 Analyzed: 11/08/23

Boron ND 2.00 mg/L

LCS (BGK0216-BS1)

Prepared: 11/07/23 Analyzed: 11/08/23

Boron 5.22 2.00 mg/L 5.00 104 80-120

Duplicate (BGK0216-DUP1)

Source: 2310585-01

Prepared: 11/07/23 Analyzed: 11/09/23

Boron 0.150 2.00 mg/L 0.160 6.46 20

Matrix Spike (BGK0216-MS1)

Source: 2310585-01

Prepared: 11/07/23 Analyzed: 11/10/23

Boron 4.40 2.00 mg/L 5.00 0.160 84.8 75-125

Matrix Spike Dup (BGK0216-MSD1)

Source: 2310585-01

Prepared: 11/07/23 Analyzed: 11/10/23

Boron 4.35 2.00 mg/L 5.00 0.160 83.7 75-125 1.25 25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGK0266 - EPA 3050B

Blank (BGK0266-BLK1)

Prepared & Analyzed: 11/08/23

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

LCS (BGK0266-BS1)

Prepared & Analyzed: 11/08/23

Arsenic	43.3	0.200	mg/kg wet	40.0	108	80-120					
Barium	44.0	0.400	"	40.0	110	80-120					
Cadmium	2.20	0.200	"	2.00	110	80-120					
Copper	47.2	0.400	"	40.0	118	80-120					
Lead	21.8	0.200	"	20.0	109	80-120					
Nickel	47.2	0.400	"	40.0	118	80-120					
Silver	2.22	0.0200	"	2.00	111	80-120					
Zinc	47.5	0.400	"	40.0	119	80-120					
Selenium	4.47	0.260	"	4.00	112	80-120					

Duplicate (BGK0266-DUP1)

Source: 2310587-01

Prepared & Analyzed: 11/08/23

Arsenic	1.90	0.200	mg/kg dry	1.58	18.3	20					
Barium	25.9	0.400	"	35.9	32.2	20					QR-04
Cadmium	0.109	0.200	"	0.115	5.87	20					
Copper	16.5	0.400	"	13.2	21.9	20					QR-04
Lead	7.48	0.200	"	12.7	51.4	20					QR-04
Nickel	1.83	0.400	"	2.03	10.0	20					
Silver	0.0110	0.0200	"	0.0123	11.3	20					
Zinc	10.4	0.400	"	10.6	1.44	20					
Selenium	ND	0.260	"	ND		20					

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

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 BGK0266 - EPA 3050B

Matrix Spike (BGK0266-MS1)

Source: 2310587-01

Prepared & Analyzed: 11/08/23

Arsenic	39.4	0.200	mg/kg dry	43.8	1.58	86.2	75-125				
Barium	64.8	0.400	"	43.8	35.9	65.9	75-125				QM-05
Cadmium	2.16	0.200	"	2.19	0.115	93.2	75-125				
Copper	53.9	0.400	"	43.8	13.2	92.7	75-125				
Lead	38.6	0.200	"	21.9	12.7	118	75-125				
Nickel	37.9	0.400	"	43.8	2.03	81.9	75-125				
Silver	2.01	0.0200	"	2.19	0.0123	91.2	75-125				
Zinc	47.6	0.400	"	43.8	10.6	84.7	75-125				
Selenium	3.89	0.260	"	4.38	ND	88.8	75-125				

Matrix Spike Dup (BGK0266-MSD1)

Source: 2310587-01

Prepared & Analyzed: 11/08/23

Arsenic	40.1	0.200	mg/kg dry	43.8	1.58	87.9	75-125	1.87	25		
Barium	66.5	0.400	"	43.8	35.9	69.7	75-125	2.59	25		QM-05
Cadmium	2.19	0.200	"	2.19	0.115	94.9	75-125	1.73	25		
Copper	55.2	0.400	"	43.8	13.2	95.8	75-125	2.47	25		
Lead	39.4	0.200	"	21.9	12.7	122	75-125	2.07	25		
Nickel	38.8	0.400	"	43.8	2.03	83.9	75-125	2.25	25		
Silver	2.07	0.0200	"	2.19	0.0123	93.8	75-125	2.79	25		
Zinc	48.7	0.400	"	43.8	10.6	87.1	75-125	2.21	25		
Selenium	4.47	0.260	"	4.38	ND	102	75-125	13.9	25		

Summit Scientific

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGK0233 - 3060A Mod

Blank (BGK0233-BLK1)

Prepared: 11/07/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGK0233-BS1)

Prepared: 11/07/23 Analyzed: 11/13/23

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

Duplicate (BGK0233-DUP1)

Source: 2310244-09

Prepared: 11/07/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGK0233-MS1)

Source: 2310244-09

Prepared: 11/07/23 Analyzed: 11/13/23

Chromium, Hexavalent 28.7 0.30 mg/kg dry 27.3 ND 105 75-125

Matrix Spike Dup (BGK0233-MSD1)

Source: 2310244-09

Prepared: 11/07/23 Analyzed: 11/13/23

Chromium, Hexavalent 27.7 0.30 mg/kg dry 27.3 ND 101 75-125 3.49 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

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 BGK0218 - General Preparation

Blank (BGK0218-BLK1)

Prepared: 11/07/23 Analyzed: 11/09/23

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

LCS (BGK0218-BS1)

Prepared: 11/07/23 Analyzed: 11/09/23

Calcium	5.21	0.0500	mg/L wet	5.00	104	70-130				
Magnesium	4.87	0.0500	"	5.00	97.5	70-130				
Sodium	4.93	0.0500	"	5.00	98.6	70-130				

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

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 BGK0222 - General Preparation

Duplicate (BGK0222-DUP1)

Source: 2310244-09

Prepared & Analyzed: 11/07/23

% Solids	91.7		%		91.6			0.138	20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

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 BGK0263 - General Preparation

Blank (BGK0263-BLK1)

Prepared & Analyzed: 11/08/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0263-BS1)

Prepared & Analyzed: 11/08/23

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

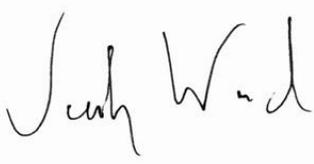
Duplicate (BGK0263-DUP1)

Source: 2311019-01

Prepared & Analyzed: 11/08/23

Specific Conductance (EC) 0.602 0.0100 mmhos/cm 0.602 0.00 20

Summit Scientific



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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 01/17/24 15:45

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 BGK0264 - General Preparation

LCS (BGK0264-BS1)

Prepared & Analyzed: 11/08/23

pH	9.05	pH Units	9.18	98.6	95-105
----	------	----------	------	------	--------

Duplicate (BGK0264-DUP1)

Source: 2311019-01

Prepared & Analyzed: 11/08/23

pH	8.73	pH Units	8.76	0.343	20
----	------	----------	------	-------	----

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
01/17/24 15:45

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.
- 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.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 14, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-12

Work Order #2311166

Enclosed are the results of analyses for samples received by Summit Scientific on 11/08/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S05@9'	2311166-01	Soil	11/08/23 12:20	11/08/23 16:30
E02@9'	2311166-02	Soil	11/08/23 12:25	11/08/23 16:30
B12@10'	2311166-03	Soil	11/08/23 12:30	11/08/23 16:30
B13@10'	2311166-04	Soil	11/08/23 12:35	11/08/23 16:30

Summit Scientific

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



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

Lab ID	Page 1 of 1
2311168	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: Fremont Distribution List	Project Name/Location: Lynhe State B36-25, Baker State B36-12	
City/State/Zip:		AFE#:	
Phone: 303-261-6246	Project Name: Lynhe State B36-25, Baker State B36-12	PO/Billing Codes:	
Sampler Name: Stanley Gilbert	Project Number: C022-187	Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron		Metals (915)	TDS, Chloride, Sulfate
1	S0569'	11/8/23	12:20	2			X			X			X	X	X	X			
2	E0269'		12:25				X			X			X	X	X	X			
3	B12610'		12:30				X			X			X	X	X	X			
4	B12610'		12:35				X			X			X	X	X	X			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>[Signature]</i>	Date/Time: 11/8/23 14:30	Received by: Summit North	Date/Time: 11/8/23 14:30	TAT Business Days	Field DO	Notes:
Relinquished by: <i>[Signature]</i>	Date/Time: 11/8/23 16:30	Received by: <i>[Signature]</i>	Date/Time: 11/8/23 16:30	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 11.3	Corrected Temperature: \ominus	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 231166

Client: Fremont

Client Project ID: Clynke State B36-25, Baker State B36-12

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

Airbill #:

Grid of boxes for shipping options

Matrix (Check all that apply)

Air

Matrix checkbox

Soil/Solid

Matrix checkbox

Water

Matrix checkbox

Other

Matrix checkbox

Temp (°C)

11.3

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.	-			OK
If custody seals are present, are they intact? (1)	-			
Are samples due within 48 hours present?	-			Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		-		
Is a chain-of-custody (COC) form present and filled out completely? (1)	-			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	-			
Were all samples received intact? (1)	✓			
Was adequate sample volume provided? (1)	✓			
Does the COC agree with the number and type of sample bottles received? (1)	✓			
Do the sample IDs on the bottle labels match the COC? (1)		✓		Sample # 4 name didn't match
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

AS

Custodian Printed Name

11/8/23

Date/Time

4



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

S05@9'
2311166-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0320	11/08/23	11/08/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0325	81.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0323	11/08/23	11/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.5	99.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

S05@9'
2311166-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0331	11/09/23	11/09/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0185	55.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0338	11/09/23	11/10/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/08/23 12:20**

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 - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

S05@9'
2311166-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.16	0.200	mg/kg dry	1	BGK0384	11/10/23	11/13/23	EPA 6020B
Barium	36.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.07	0.400	"	"	"	"	"	"
Lead	3.05	0.200	"	"	"	"	"	"
Nickel	1.99	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0314	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	79.0	0.0500	mg/L dry	1	BGK0322	11/08/23	11/09/23	EPA 6020B	
Magnesium	18.7	0.0500	"	"	"	"	"	"	
Sodium	36.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.954	0.00100	units	1	BGK0382	11/10/23	11/10/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

S05@9'
2311166-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BGK0336	11/09/23	11/09/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.223	0.0100	mmhos/cm	1	BGK0335	11/09/23	11/09/23	EPA 120.1	

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

Date Sampled: **11/08/23 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.75		pH Units	1	BGK0342	11/09/23	11/09/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

E02@9'
2311166-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGK0320	11/08/23	11/08/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0330	82.6 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0323	11/08/23	11/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.5	84.4 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

E02@9'
2311166-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0331	11/09/23	11/09/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0338	11/09/23	11/10/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/08/23 12:25**

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

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

E02@9'
2311166-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.32	0.200	mg/kg dry	1	BGK0384	11/10/23	11/13/23	EPA 6020B	
Barium	52.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.76	0.400	"	"	"	"	"	"	
Lead	6.72	0.200	"	"	"	"	"	"	
Nickel	4.73	0.400	"	"	"	"	"	"	
Silver	0.0295	0.0200	"	"	"	"	"	"	
Zinc	16.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0314	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.5	0.0500	mg/L dry	1	BGK0322	11/08/23	11/09/23	EPA 6020B	
Magnesium	9.92	0.0500	"	"	"	"	"	"	
Sodium	20.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.864	0.00100	units	1	BGK0382	11/10/23	11/10/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

E02@9'
2311166-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BGK0336	11/09/23	11/09/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.252	0.0100	mmhos/cm	1	BGK0335	11/09/23	11/09/23	EPA 120.1	

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

Date Sampled: **11/08/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BGK0342	11/09/23	11/09/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

B12@10'
2311166-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0320	11/08/23	11/08/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/08/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0323	80.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0323	11/08/23	11/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/08/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.5	108 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

B12@10'
2311166-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/08/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0331	11/09/23	11/09/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/08/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0141	42.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0139	41.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0338	11/09/23	11/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/08/23 12:30**

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

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

B12@10'
2311166-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.920	0.200	mg/kg dry	1	BGK0384	11/10/23	11/13/23	EPA 6020B	
Barium	4.85	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.908	0.400	"	"	"	"	"	"	
Lead	1.32	0.200	"	"	"	"	"	"	
Nickel	0.788	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	3.20	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/08/23 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0314	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/08/23 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.5	0.0500	mg/L dry	1	BGK0322	11/08/23	11/09/23	EPA 6020B	
Magnesium	11.2	0.0500	"	"	"	"	"	"	
Sodium	38.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/08/23 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.59	0.00100	units	1	BGK0382	11/10/23	11/10/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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PO Box 1289
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Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

B12@10'
2311166-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.4		%	1	BGK0336	11/09/23	11/09/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.397	0.0100	mmhos/cm	1	BGK0335	11/09/23	11/09/23	EPA 120.1	

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

Date Sampled: **11/08/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BGK0342	11/09/23	11/09/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

B13@10'
2311166-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0320	11/08/23	11/08/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0322	80.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0428	107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0323	11/08/23	11/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

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

PAH by EPA Method 8270D SIM

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Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

B13@10'
2311166-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0331	11/09/23	11/09/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0223	66.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0338	11/09/23	11/11/23	EPA 6020B	

Total Metals by EPA 6020B

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

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

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

B13@10'
2311166-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.13	0.200	mg/kg dry	1	BGK0384	11/10/23	11/13/23	EPA 6020B	
Barium	5.63	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.10	0.400	"	"	"	"	"	"	
Lead	1.32	0.200	"	"	"	"	"	"	
Nickel	0.901	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	3.59	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/08/23 12:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0314	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/08/23 12:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.9	0.0500	mg/L dry	1	BGK0322	11/08/23	11/09/23	EPA 6020B	
Magnesium	14.2	0.0500	"	"	"	"	"	"	
Sodium	46.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/08/23 12:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.66	0.00100	units	1	BGK0382	11/10/23	11/10/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

B13@10'
2311166-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	81.1			%	1	BGK0336	11/09/23	11/09/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.454	0.0100		mmhos/cm	1	BGK0335	11/09/23	11/09/23	EPA 120.1	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.90			pH Units	1	BGK0342	11/09/23	11/09/23	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

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 BGK0320 - EPA 5030 Soil MS

Blank (BGK0320-BLK1)

Prepared: 11/08/23 Analyzed: 11/09/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0270		"	0.0400		67.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0411		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0415		"	0.0400		104	50-150			

LCS (BGK0320-BS1)

Prepared: 11/08/23 Analyzed: 11/09/23

Benzene	0.0762	0.0020	mg/kg	0.100		76.2	70-130			
Toluene	0.100	0.0050	"	0.100		100	70-130			
Ethylbenzene	0.0964	0.0050	"	0.100		96.4	70-130			
m,p-Xylene	0.190	0.010	"	0.200		94.9	70-130			
o-Xylene	0.0946	0.0050	"	0.100		94.6	70-130			
1,2,4-Trimethylbenzene	0.0957	0.0050	"	0.100		95.7	70-130			
1,3,5-Trimethylbenzene	0.0955	0.0050	"	0.100		95.5	70-130			
Naphthalene	0.0837	0.0038	"	0.100		83.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0278		"	0.0400		69.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0428		"	0.0400		107	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.4	50-150			

Matrix Spike (BGK0320-MS1)

Source: 2311165-01

Prepared: 11/08/23 Analyzed: 11/09/23

Benzene	0.0645	0.0020	mg/kg	0.100	ND	64.5	70-130			QM-07
Toluene	0.0833	0.0050	"	0.100	ND	83.3	70-130			
Ethylbenzene	0.0769	0.0050	"	0.100	ND	76.9	70-130			
m,p-Xylene	0.153	0.010	"	0.200	ND	76.3	70-130			
o-Xylene	0.0736	0.0050	"	0.100	ND	73.6	70-130			
1,2,4-Trimethylbenzene	0.0869	0.0050	"	0.100	0.00654	80.4	70-130			
1,3,5-Trimethylbenzene	0.0781	0.0050	"	0.100	ND	78.1	70-130			
Naphthalene	0.0660	0.0038	"	0.100	ND	66.0	70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0265		"	0.0400		66.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0431		"	0.0400		108	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0397		"	0.0400		99.2	50-150			

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 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

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		

Batch BGK0320 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0320-MSD1)	Source: 2311165-01			Prepared: 11/08/23 Analyzed: 11/09/23						
Benzene	0.0749	0.0020	mg/kg	0.100	ND	74.9	70-130	14.9	30	
Toluene	0.0990	0.0050	"	0.100	ND	99.0	70-130	17.2	30	
Ethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	70-130	11.5	30	
m,p-Xylene	0.171	0.010	"	0.200	ND	85.6	70-130	11.5	30	
o-Xylene	0.0836	0.0050	"	0.100	ND	83.6	70-130	12.7	30	
1,2,4-Trimethylbenzene	0.0960	0.0050	"	0.100	0.00654	89.4	70-130	9.87	30	
1,3,5-Trimethylbenzene	0.0884	0.0050	"	0.100	ND	88.4	70-130	12.3	30	
Naphthalene	0.0747	0.0038	"	0.100	ND	74.7	70-130	12.3	30	
Surrogate: 1,2-Dichloroethane-d4	0.0290		"	0.0400		72.4	50-150			
Surrogate: Toluene-d8	0.0446		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

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 BGK0323 - EPA 3550A

Blank (BGK0323-BLK1)

Prepared: 11/08/23 Analyzed: 11/09/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.0		"	12.5		87.7	30-150				

LCS (BGK0323-BS1)

Prepared: 11/08/23 Analyzed: 11/09/23

C10-C28 (DRO)	490	50	mg/kg	500		97.9	70-130				
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.9	30-150				

Matrix Spike (BGK0323-MS1)

Source: 2311165-01

Prepared: 11/08/23 Analyzed: 11/09/23

C10-C28 (DRO)	467	50	mg/kg	500	9.57	91.4	70-130				
Surrogate: <i>o</i> -Terphenyl	10.0		"	12.5		80.4	30-150				

Matrix Spike Dup (BGK0323-MSD1)

Source: 2311165-01

Prepared: 11/08/23 Analyzed: 11/09/23

C10-C28 (DRO)	467	50	mg/kg	500	9.57	91.6	70-130	0.188	20		
Surrogate: <i>o</i> -Terphenyl	10.0		"	12.5		80.1	30-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGK0331 - EPA 5030 Soil MS

Blank (BGK0331-BLK1)

Prepared & Analyzed: 11/09/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0212</i>		"	<i>0.0333</i>		<i>63.7</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0190</i>		"	<i>0.0333</i>		<i>57.0</i>		<i>40-150</i>		

LCS (BGK0331-BS1)

Prepared & Analyzed: 11/09/23

Acenaphthene	0.0227	0.00500	mg/kg	0.0333		68.0		31-137		
Anthracene	0.0251	0.00500	"	0.0333		75.2		30-120		
Benzo (a) anthracene	0.0239	0.00500	"	0.0333		71.7		30-120		
Benzo (a) pyrene	0.0252	0.00500	"	0.0333		75.6		30-120		
Benzo (b) fluoranthene	0.0258	0.00500	"	0.0333		77.5		30-120		
Benzo (k) fluoranthene	0.0267	0.00500	"	0.0333		80.2		30-120		
Chrysene	0.0248	0.00500	"	0.0333		74.3		30-120		
Dibenz (a,h) anthracene	0.0235	0.00500	"	0.0333		70.4		30-120		
Fluoranthene	0.0257	0.00500	"	0.0333		77.0		30-120		
Fluorene	0.0196	0.00500	"	0.0333		58.9		30-120		
Indeno (1,2,3-cd) pyrene	0.0247	0.00500	"	0.0333		74.2		30-120		
Pyrene	0.0255	0.00500	"	0.0333		76.4		35-142		
1-Methylnaphthalene	0.0229	0.00500	"	0.0333		68.6		35-142		
2-Methylnaphthalene	0.0234	0.00500	"	0.0333		70.2		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0228</i>		"	<i>0.0333</i>		<i>68.4</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0263</i>		"	<i>0.0333</i>		<i>78.8</i>		<i>40-150</i>		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

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 BGK0331 - EPA 5030 Soil MS

Matrix Spike (BGK0331-MS1)	Source: 2311158-56			Prepared & Analyzed: 11/09/23						
Acenaphthene	0.0174	0.00500	mg/kg	0.0333	ND	52.2	31-137			
Anthracene	0.0164	0.00500	"	0.0333	ND	49.1	30-120			
Benzo (a) anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120			
Benzo (a) pyrene	0.0152	0.00500	"	0.0333	ND	45.6	30-120			
Benzo (b) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.6	30-120			
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.2	30-120			
Chrysene	0.0163	0.00500	"	0.0333	ND	48.8	30-120			
Dibenz (a,h) anthracene	0.0133	0.00500	"	0.0333	ND	40.0	30-120			
Fluoranthene	0.0160	0.00500	"	0.0333	ND	48.1	30-120			
Fluorene	0.0163	0.00500	"	0.0333	ND	49.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0145	0.00500	"	0.0333	ND	43.6	30-120			
Pyrene	0.0168	0.00500	"	0.0333	ND	50.4	35-142			
1-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.1	15-130			
2-Methylnaphthalene	0.0173	0.00500	"	0.0333	ND	52.0	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0173</i>		<i>"</i>	<i>0.0333</i>		<i>51.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0167</i>		<i>"</i>	<i>0.0333</i>		<i>50.0</i>	<i>40-150</i>			

Matrix Spike Dup (BGK0331-MSD1)	Source: 2311158-56			Prepared & Analyzed: 11/09/23						
Acenaphthene	0.0210	0.00500	mg/kg	0.0333	ND	62.9	31-137	18.6	30	
Anthracene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	24.0	30	
Benzo (a) anthracene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	24.6	30	
Benzo (a) pyrene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	23.5	30	
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	22.4	30	
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	22.8	30	
Chrysene	0.0206	0.00500	"	0.0333	ND	61.7	30-120	23.4	30	
Dibenz (a,h) anthracene	0.0172	0.00500	"	0.0333	ND	51.5	30-120	25.1	30	
Fluoranthene	0.0205	0.00500	"	0.0333	ND	61.4	30-120	24.2	30	
Fluorene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	16.5	30	
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	19.6	30	
Pyrene	0.0207	0.00500	"	0.0333	ND	62.1	35-142	20.9	30	
1-Methylnaphthalene	0.0212	0.00500	"	0.0333	ND	63.7	15-130	20.0	50	
2-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	63.2	15-130	19.4	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0219</i>		<i>"</i>	<i>0.0333</i>		<i>65.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0213</i>		<i>"</i>	<i>0.0333</i>		<i>63.8</i>	<i>40-150</i>			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

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

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

Batch BGK0338 - EPA 3050B

Blank (BGK0338-BLK1)

Prepared: 11/09/23 Analyzed: 11/10/23

Boron ND 2.00 mg/L

LCS (BGK0338-BS1)

Prepared: 11/09/23 Analyzed: 11/10/23

Boron 4.89 2.00 mg/L 5.00 97.8 80-120

Duplicate (BGK0338-DUP1)

Source: 2311166-01

Prepared: 11/09/23 Analyzed: 11/10/23

Boron 0.156 2.00 mg/L 0.182 15.4 20

Matrix Spike (BGK0338-MS1)

Source: 2311166-01

Prepared: 11/09/23 Analyzed: 11/10/23

Boron 5.27 2.00 mg/L 5.00 0.182 102 75-125

Matrix Spike Dup (BGK0338-MSD1)

Source: 2311166-01

Prepared: 11/09/23 Analyzed: 11/10/23

Boron 5.29 2.00 mg/L 5.00 0.182 102 75-125 0.337 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

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 BGK0384 - EPA 3050B

Blank (BGK0384-BLK1)

Prepared: 11/10/23 Analyzed: 11/13/23

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

LCS (BGK0384-BS1)

Prepared: 11/10/23 Analyzed: 11/13/23

Arsenic	43.2	0.200	mg/kg wet	40.0	108	80-120
Barium	43.9	0.400	"	40.0	110	80-120
Cadmium	2.09	0.200	"	2.00	105	80-120
Copper	42.3	0.400	"	40.0	106	80-120
Lead	20.8	0.200	"	20.0	104	80-120
Nickel	42.4	0.400	"	40.0	106	80-120
Silver	2.05	0.0200	"	2.00	102	80-120
Zinc	40.7	0.400	"	40.0	102	80-120
Selenium	4.16	0.260	"	4.00	104	80-120

Duplicate (BGK0384-DUP1)

Source: 2311140-01

Prepared: 11/10/23 Analyzed: 11/13/23

Arsenic	0.976	0.200	mg/kg dry	0.740	27.4	20	QR-01
Barium	75.5	0.400	"	88.4	15.7	20	
Cadmium	0.410	0.200	"	0.410	0.244	20	
Copper	11.2	0.400	"	11.3	0.972	20	
Lead	14.9	0.200	"	14.3	4.14	20	
Nickel	5.67	0.400	"	6.58	15.0	20	
Silver	0.0865	0.0200	"	0.0765	12.3	20	
Zinc	16.8	0.400	"	17.4	3.06	20	
Selenium	0.276	0.260	"	0.196	33.5	20	QR-01

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

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 BGK0384 - EPA 3050B

Matrix Spike (BGK0384-MS1)

Source: 2311140-01

Prepared: 11/10/23 Analyzed: 11/13/23

Arsenic	44.5	0.200	mg/kg dry	50.0	0.740	87.6	75-125			
Barium	125	0.400	"	50.0	88.4	73.6	75-125			QM-07
Cadmium	2.65	0.200	"	2.50	0.410	89.7	75-125			
Copper	35.1	0.400	"	50.0	11.3	47.5	75-125			QM-07
Lead	34.8	0.200	"	25.0	14.3	82.1	75-125			
Nickel	28.3	0.400	"	50.0	6.58	43.4	75-125			QM-07
Silver	2.42	0.0200	"	2.50	0.0765	93.8	75-125			
Zinc	37.2	0.400	"	50.0	17.4	39.6	75-125			QM-07
Selenium	6.55	0.260	"	5.00	0.196	127	75-125			QM-07

Matrix Spike Dup (BGK0384-MSD1)

Source: 2311140-01

Prepared: 11/10/23 Analyzed: 11/13/23

Arsenic	45.2	0.200	mg/kg dry	50.0	0.740	88.8	75-125	1.35	25	
Barium	125	0.400	"	50.0	88.4	73.6	75-125	0.0144	25	QM-07
Cadmium	2.59	0.200	"	2.50	0.410	87.2	75-125	2.40	25	
Copper	35.1	0.400	"	50.0	11.3	47.6	75-125	0.181	25	QM-07
Lead	34.8	0.200	"	25.0	14.3	82.0	75-125	0.0388	25	
Nickel	28.2	0.400	"	50.0	6.58	43.3	75-125	0.0549	25	QM-07
Silver	2.37	0.0200	"	2.50	0.0765	91.6	75-125	2.32	25	
Zinc	37.0	0.400	"	50.0	17.4	39.3	75-125	0.479	25	QM-07
Selenium	6.53	0.260	"	5.00	0.196	127	75-125	0.260	25	QM-07

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

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 BGK0314 - 3060A Mod

Blank (BGK0314-BLK1)

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGK0314-BS1)

Prepared: 11/08/23 Analyzed: 11/13/23

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

Duplicate (BGK0314-DUP1)

Source: 2311019-01

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGK0314-MS1)

Source: 2311019-01

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent 28.6 0.30 mg/kg dry 27.4 ND 104 75-125

Matrix Spike Dup (BGK0314-MSD1)

Source: 2311019-01

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent 27.1 0.30 mg/kg dry 27.4 ND 99.2 75-125 5.11 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

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 BGK0322 - General Preparation

Blank (BGK0322-BLK1)

Prepared: 11/08/23 Analyzed: 11/09/23

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

LCS (BGK0322-BS1)

Prepared: 11/08/23 Analyzed: 11/09/23

Calcium	4.72	0.0500	mg/L wet	5.00	94.5	70-130
Magnesium	4.89	0.0500	"	5.00	97.8	70-130
Sodium	5.02	0.0500	"	5.00	100	70-130

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

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 BGK0336 - General Preparation

Duplicate (BGK0336-DUP1)

Source: 2311166-01

Prepared & Analyzed: 11/09/23

% Solids	91.2		%		91.7			0.533	20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

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 BGK0335 - General Preparation

Blank (BGK0335-BLK1)

Prepared & Analyzed: 11/09/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0335-BS1)

Prepared & Analyzed: 11/09/23

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

Duplicate (BGK0335-DUP1)

Source: 2311039-01

Prepared & Analyzed: 11/09/23

Specific Conductance (EC) 1.15 0.0100 mmhos/cm 1.15 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
 Project Manager: Paul Henchan

Reported:
 11/14/23 11:30

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 BGK0342 - General Preparation

LCS (BGK0342-BS1)

Prepared & Analyzed: 11/09/23

pH	9.07	pH Units	9.18	98.8	95-105
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Duplicate (BGK0342-DUP1)

Source: 2311039-01

Prepared & Analyzed: 11/09/23

pH	8.06	pH Units	8.06	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-12

Project Number: CO22-187
Project Manager: Paul Henchan

Reported:
11/14/23 11:30

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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