

April 5, 2024

## Noble Energy, Inc – Cornelius 63N65W 11SWNW

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### Site Investigation Update

SWNW Sec 11, T3N, R65W

40.243751, -104.636822

Weld County, Colorado

Fremont Project No. C023-125

Facility # 332721, Remediation # 28380

### Site Overview – Site History

The site consists of the former Cornelius T3N-R65W-S11 L01 facility which serviced the Cornelius 11-22 and Cornelius 11-23 natural gas wells. The Cornelius 11-22 natural gas well was drilled in 1995 to a measured depth of approximately 7,705 feet and the Cornelius 11-23 natural gas well was drilled in 1994 to a measured depth of approximately 7,480 feet.

A historical release was discovered at the base of a former on-site produced water vault during decommissioning activities on May 2, 2023. A comprehensive site investigation was undertaken to define the magnitude and extent of soil impacts on February 8, 2024.

### Conceptual Site Model\*

\*Data presented represents the most recent sampling event

- **Land Use** – Rangeland
- **Lithology (USCS)** – SW (Grains become coarser with depth)
- **Potential Receptors within ¼ mile** – Bald Eagle roost site, Freshwater Emergent Wetland 150 feet SSW, Riverine 610 feet E, Lake 1900 feet
- **Groundwater Encountered** – Yes
- **Estimated Depth to Groundwater** – Five to six feet
- **Impacted Media and Estimated Excavation Extent** – 65'x50'x6' deep
- **Volume of Impacts Removed** – N/A
- **Waste Type** – hydrocarbon impacted soil

### Contaminants of Concern (COC)

The laboratory data indicate organic soil constituents did not achieve the ECMC Table 915-1 standards in seven of the 18 soil samples collected during the February 8, 2024 supplemental site investigation conducted at and adjacent to the former produced water vault. Additionally, one groundwater sample analyzed for dissolved phase organic groundwater constituents exceeded the Table 915-1 standard for 1,2,4 Trimethylbenzene with a concentration of 630 µg/L. The soil analytical data are summarized in Tables 1-4, and the groundwater data are summarized in Table 5. A copy of the laboratory's report, quality control data, and chain-of-custody documentation is attached.

## Remedial Actions

Excavation will be conducted to remove impacts within the vadose zone. Remedial options will be evaluated to address dissolved phase groundwater impacts and soil impacts within the saturated zone. Air sparge (AS) and/or soil vapor extraction (SVE) systems may be installed post excavation.

## Discussion

A comprehensive site investigation was undertaken to define the magnitude and extent of soil impacts on February 8, 2024. Soil collected during the February 2024 site investigation, exceeding the ECMC Table 915-1 screening levels was observed in six of the nine soil borings. A 65'x50'x6' deep excavation extent is proposed to remediate soil impacts in the vadose zone at the site. The soil data are illustrated and summarized in the attached tables and figures. Additionally, one well (MW-1) was installed in the apparent source location of the spill. Groundwater, collected and analyzed for dissolved phase organic constituents, exceeded the Table 915-1 standards for 1,2,4 Trimethylbenzene. Soil impacts will be removed via excavation and additional remedial actions will be evaluated and may include but are not limited to the installation of an AS/SVE system post excavation.

## Remarks

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

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




4/5/24

Date \_\_\_\_\_

Jeff T. Griggs

Geologist

Reviewed by:



4/5/24

Date \_\_\_\_\_

Paul V. Henehan, P.E.

Senior Consultant

Attachments:

Tables

Figures

Boring Logs

Laboratory Report

**TABLE 1**  
**SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**CORNELIUS 63N65W 11SWNW, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-125**

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
AST01@6"	05/02/2023	6"	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVB01@7'	05/02/2023	7'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.00500	<0.0038	9.1	<50	<50
PWVE01@6'	05/02/2023	6'	<0.0020	<0.0050	<0.0050	<0.010	<b>0.073</b>	<b>0.18</b>	<0.0038	34	<50	<50
SEPO2@4'	05/02/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-1 (6.0')	2/8/2024	6.0 Ft	<0.0020	<0.0050	0.11	<0.010	<b>1.4</b>	<0.0050	<b>0.035</b>	290	53	<50
MW-1 (8.0')	2/8/2024	8.0 Ft	<0.0020	<0.0050	0.24	<0.010	<b>6.8</b>	<0.0050	<b>0.13</b>	230	120	<50
SB-1 (6.0')	2/8/2024	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-1 (8.0')	2/8/2024	8.0 Ft	<0.0020	<0.0050	0.01	0.054	<b>2.3</b>	<b>1.4</b>	<b>0.0075</b>	140	<50	<50
SB-3 (5.0')	2/8/2024	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-3 (7.0')	2/8/2024	7.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-4 (10.0')	2/8/2024	10.0 Ft	<0.020	<0.050	0.13	0.45	<b>1.4</b>	<b>0.36</b>	<0.038	96	<50	<50
SB-4 (6.0')	2/8/2024	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-5 (6.0')	2/8/2024	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-5 (8.0')	2/8/2024	8.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-6 (12.0')	2/8/2024	12.0 Ft	<0.0020	<0.0050	0.17	<0.010	<b>1.0</b>	<b>0.016</b>	<b>0.017</b>	18	<50	<50
SB-6 (6.0')	2/8/2024	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-7 (11.0')	2/8/2024	11.0 Ft	<0.020	<0.050	0.097	0.18	<b>0.77</b>	<b>0.94</b>	<b>0.071</b>	36	<50	<50
SB-7 (7.0')	2/8/2024	7.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-8 (12.0')	2/8/2024	12.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	1.7	<50	<50
SB-8 (8.0')	2/8/2024	8.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-9 (4.0')	2/8/2024	4.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-9 (8.0')	2/8/2024	8.0 Ft	<0.0020	<0.0050	0.11	0.033	<b>0.14</b>	<b>0.051</b>	<b>0.027</b>	11	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

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

Green highlighted cells indicate soil removed via excavation

\* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
CORNELIUS 63N65W 11SWNW, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C023-125

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl - Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
AST01@6"	05/02/2023	6"	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWVB01@7'	05/02/2023	7'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWVE01@6'	05/02/2023	6'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.015</b>	<b>0.040</b>
SEP02@4'	05/02/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-1 (6.0')	2/8/2024	6.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0105</b>	<b>0.0292</b>
MW-1 (8.0')	2/8/2024	8.0 Ft	0.0175	<0.00500	0.00620	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0360	<0.00500	<0.00500	<b>0.127</b>	<b>0.860</b>
SB-1 (6.0')	2/8/2024	6.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-1 (8.0')	2/8/2024	8.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0348</b>	<b>0.0882</b>
SB-3 (5.0')	2/8/2024	5.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-3 (7.0')	2/8/2024	7.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-4 (10.0')	2/8/2024	10.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0284</b>	<b>0.0739</b>
SB-4 (6.0')	2/8/2024	6.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-5 (6.0')	2/8/2024	6.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-5 (8.0')	2/8/2024	8.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-6 (12.0')	2/8/2024	12.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-6 (6.0')	2/8/2024	6.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-7 (11.0')	2/8/2024	11.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-7 (7.0')	2/8/2024	7.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-8 (12.0')	2/8/2024	12.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-8 (8.0')	2/8/2024	8.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-9 (4.0')	2/8/2024	4.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-9 (8.0')	2/8/2024	8.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0123</b>	<b>0.0290</b>

Bold faced values exceed the ECMC Table 915-1 concentrations

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

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Green highlighted cells indicate soil removed via excavation

**TABLE 3**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE ENERGY INC.**  
**CORNELIUS 63N65W 11SWNW, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-125**

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Max. Background Concentration (or Concentration Range)			8.45	-	-	-
AST01@6"	05/02/2023	6"	5.57	0.039	0.026	0.0285
PWVB01@7'	05/02/2023	7'	7.55	0.764	3.480	0.2280
PWVE01@6'	05/02/2023	6'	7.52	0.661	3.640	0.2110
SEP02@4'	05/02/2023	4'	7.40	0.251	0.277	0.0669
MW-1 (6.0')	2/8/2024	6.0 Ft	8.41	0.283	2.03	<2.00
MW-1 (8.0')	2/8/2024	8.0 Ft	6.85	0.344	1.68	<2.00
SB-1 (6.0')	2/8/2024	6.0 Ft	8.30	0.139	0.0936	0.125
SB-1 (8.0')	2/8/2024	8.0 Ft	7.66	0.540	2.48	<2.00
SB-3 (5.0')	2/8/2024	5.0 Ft	6.09	0.0837	0.0685	<2.00
SB-3 (7.0')	2/8/2024	7.0 Ft	5.51	0.174	0.535	<2.00
SB-4 (10.0')	2/8/2024	10.0 Ft	8.54	0.437	2.98	<2.00
SB-4 (6.0')	2/8/2024	6.0 Ft	5.19	0.0704	0.0502	<2.00
SB-5 (6.0')	2/8/2024	6.0 Ft	7.84	0.287	0.217	<2.00
SB-5 (8.0')	2/8/2024	8.0 Ft	7.85	0.287	1.07	<2.00
SB-6 (12.0')	2/8/2024	12.0 Ft	7.59	0.284	2.14	<2.00
SB-6 (6.0')	2/8/2024	6.0 Ft	7.55	0.305	0.116	<2.00
SB-7 (11.0')	2/8/2024	11.0 Ft	7.96	0.403	3.46	<2.00
SB-7 (7.0')	2/8/2024	7.0 Ft	6.24	0.0268	0.0366	<2.00
SB-8 (12.0')	2/8/2024	12.0 Ft	8.59	0.464	1.47	<2.00
SB-8 (8.0')	2/8/2024	8.0 Ft	7.20	0.0505	0.126	<2.00
SB-9 (4.0')	2/8/2024	4.0 Ft	7.64	0.147	0.107	<2.00
SB-9 (8.0')	2/8/2024	8.0 Ft	7.03	0.201	1.17	<2.00
BKG01@6.0'	02/08/2024	6.0 Ft	8.23	1.12	9.86	2.97
BKG01@8.0'	02/08/2024	8.0 Ft	8.12	1.19	4.89	<2.00
BKG02@5.0'	02/08/2024	5.0 Ft	7.23	1.40	3.52	<2.00
BKG02@6.0'	02/08/2024	6.0 Ft	8.45	1.71	8.80	<2.00

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Max. Background Concentration (or Concentration Range)			8.45	-	-	-
BKG03@5.0'	02/08/2024	5.0 Ft	7.49	1.07	1.49	<2.00
BKG03@6.0'	02/08/2024	6.0 Ft	7.82	0.748	4.32	<2.00
BKG04@6.0'	02/08/2024	6.0 Ft	8.14	1.16	4.34	<2.00
BKG04@7.0'	02/08/2024	7.0 Ft	8.22	1.32	<b>6.58</b>	<2.00
BKG05@6.0'	02/08/2024	6.0 Ft	7.27	0.634	1.06	<2.00
BKG05@8.0'	02/08/2024	8.0 Ft	7.76	0.836	4.73	<2.00

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

Green highlighted cells indicate soil removed via excavation

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

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

NA - Not analyzed

Local Background Samples (BKG01, BKG02, BKG03, BKG04, BKG05)

TABLE 4  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
CORNELIUS 63N65W 11SWNW, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C023-125

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
125% Max. Background Concentration			4.20	151.25	-	0.117	-	-	-	-	-	-
PWVE01@6'	05/02/2023	6'	1.31	45.30	<0.235	<0.30	2.55	3.68	2.04	<0.260	<0.0235	10.30
MW-1 (6.0')	2/8/2024	6.0 Ft	3.92	106	0.213	<0.080	7.43	9.33	5.40	<0.260	0.0495	21.1
MW-1 (8.0')	2/8/2024	8.0 Ft	1.76	52.7	<0.200	0.084	2.80	4.06	2.67	<0.260	0.0206	11.4
SB-1 (6.0')	2/8/2024	6.0 Ft	1.36	43.1	<0.181	<0.080	2.44	3.57	2.47	<0.236	<0.0181	10.1
SB-1 (8.0')	2/8/2024	8.0 Ft	1.67	47.7	<0.180	<0.080	2.88	3.61	2.84	<0.234	0.0182	10.3
SB-3 (5.0')	2/8/2024	5.0 Ft	1.39	54.0	<0.200	0.088	2.67	5.59	2.56	<0.260	0.0349	11.0
SB-3 (7.0')	2/8/2024	7.0 Ft	2.00	88.4	<0.200	<0.080	3.14	5.20	3.50	<0.260	0.0463	15.3
SB-4 (10.0')	2/8/2024	10.0 Ft	1.82	88.7	0.227	<0.080	5.87	8.57	5.08	<0.236	0.0453	20.9
SB-4 (6.0')	2/8/2024	6.0 Ft	1.36	43.0	<0.179	<0.080	2.13	3.25	2.25	<0.232	0.0181	9.62
SB-5 (6.0')	2/8/2024	6.0 Ft	1.45	55.8	<0.200	0.120	2.68	3.87	2.96	<0.260	<0.0200	12.2
SB-5 (8.0')	2/8/2024	8.0 Ft	1.47	69.9	<0.200	<0.080	4.62	6.61	4.39	<0.260	0.0429	15.8
SB-6 (12.0')	2/8/2024	12.0 Ft	1.68	96.0	0.235	0.204	4.85	6.06	4.38	<0.260	0.0409	19.1
SB-6 (6.0')	2/8/2024	6.0 Ft	1.26	43.8	<0.200	0.145	2.78	3.57	2.87	<0.260	<0.0200	9.89
SB-7 (11.0')	2/8/2024	11.0 Ft	1.91	104	0.196	<0.080	7.05	10.4	5.60	<0.232	0.0606	19.8
SB-7 (7.0')	2/8/2024	7.0 Ft	1.39	48.3	<0.200	0.089	2.40	3.48	2.68	<0.260	<0.0200	11.3
SB-8 (12.0')	2/8/2024	12.0 Ft	1.03	123	0.247	0.142	5.56	7.09	5.02	<0.260	0.0470	21.7
SB-8 (8.0')	2/8/2024	8.0 Ft	1.31	43.3	<0.200	<0.080	2.34	3.20	2.38	<0.260	<0.0200	9.60
SB-9 (4.0')	2/8/2024	4.0 Ft	1.56	43.6	<0.179	<0.080	2.70	3.64	2.62	<0.232	<0.0179	10.7
SB-9 (8.0')	2/8/2024	8.0 Ft	1.88	108	<0.200	<0.080	6.61	9.08	4.69	<0.260	0.0532	19.6
BKG01@6.0'	02/08/2024	6.0 Ft	2.31	121	0.224	0.094	5.62	8.12	5.47	<0.260	0.0844	20.7
BKG01@8.0'	02/08/2024	8.0 Ft	1.39	44.7	<0.200	<0.080	2.17	2.93	2.33	<0.260	<0.0200	8.67
BKG02@5.0'	02/08/2024	5.0 Ft	0.894	27.0	<0.200	<0.080	2.82	4.92	1.68	<0.260	<0.0200	11.9
BKG02@6.0'	02/08/2024	6.0 Ft	1.59	83.0	<0.200	<0.080	2.95	4.47	3.52	<0.260	0.0213	12.1
BKG03@5.0'	02/08/2024	5.0 Ft	1.10	25.0	<0.200	0.083	2.25	3.48	1.78	<0.260	<0.0200	9.33
BKG03@6.0'	02/08/2024	6.0 Ft	1.72	53.1	<0.200	<0.080	2.58	3.76	3.06	<0.260	0.0203	10.9
BKG04@6.0'	02/08/2024	6.0 Ft	1.10	28.2	<0.200	0.083	2.38	4.00	2.11	<0.260	<0.0200	9.73
BKG04@7.0'	02/08/2024	7.0 Ft	3.36	53.0	<0.200	<0.080	2.61	3.59	3.11	<0.260	0.0283	9.87
BKG05@6.0'	02/08/2024	6.0 Ft	1.05	13.2	<0.200	<0.080	2.37	3.91	1.27	<0.260	<0.0200	9.58
BKG05@8.0'	02/08/2024	8.0 Ft	0.981	20.7	<0.200	<0.080	1.80	2.55	2.03	<0.260	<0.0200	8.10

Bold faced values exceed the ECMC Table 915-1 concentrations

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

Orange highlighted cells exceed 125% of the maximum background concentration

\* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

Local Background Samples (BKG01, BKG02, BKG03, BKG04, BKG05)

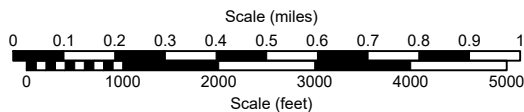
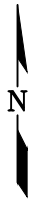
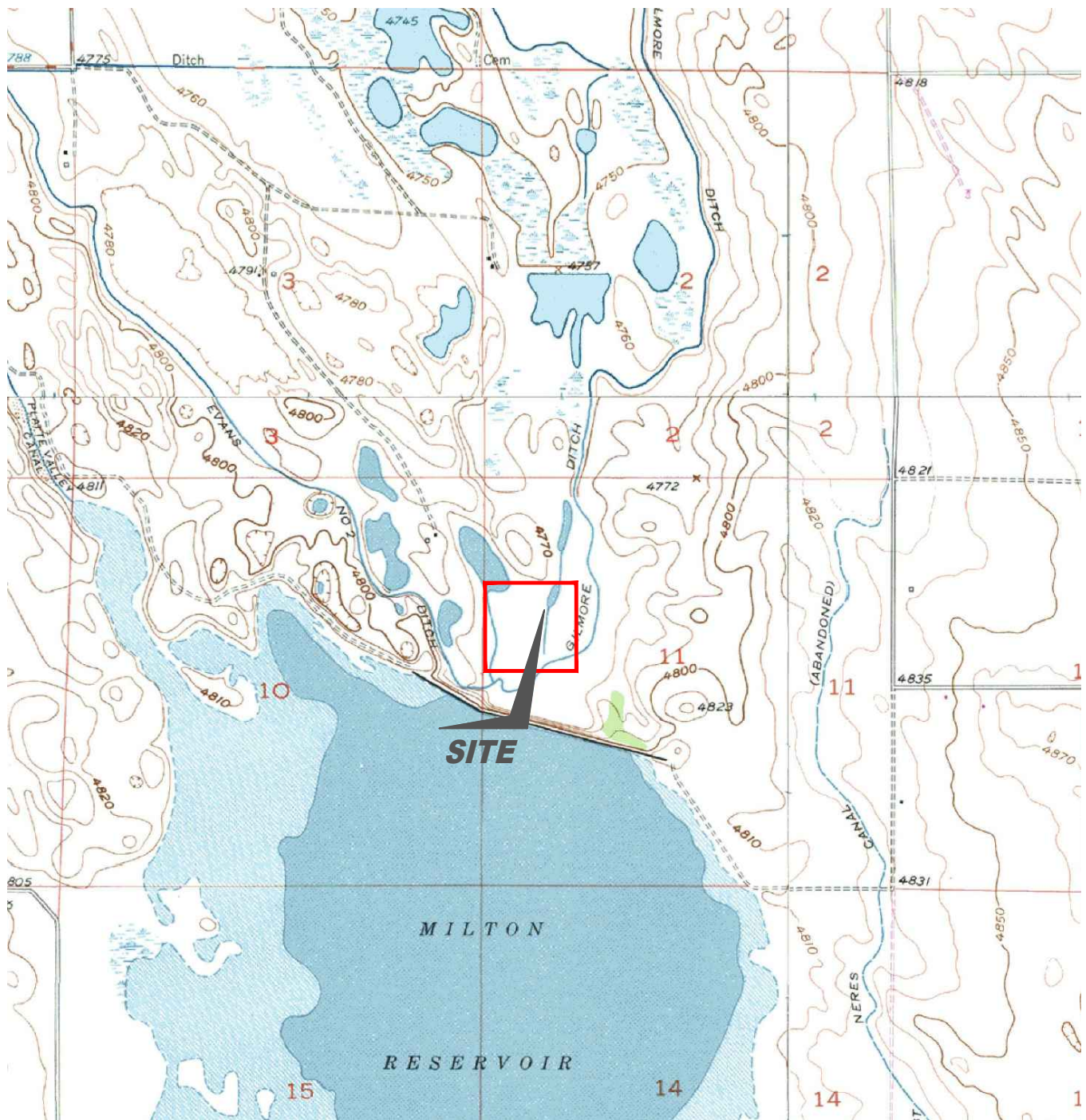
**TABLE 5**  
**SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**CORNELIUS 63N65W 11SWNW, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-125**

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
GW01	05/02/2023	<b>9.0</b>	2	200	1400	43	<b>460</b>	<b>300</b>	NA	NA	NA	NA
MW-1	02/08/24	<1.0	<1.0	76	<2.0	19	<b>630</b>	<1.0	NA	7.7	NA	NP

Bold face values exceed the ECMC concentration limits

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

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



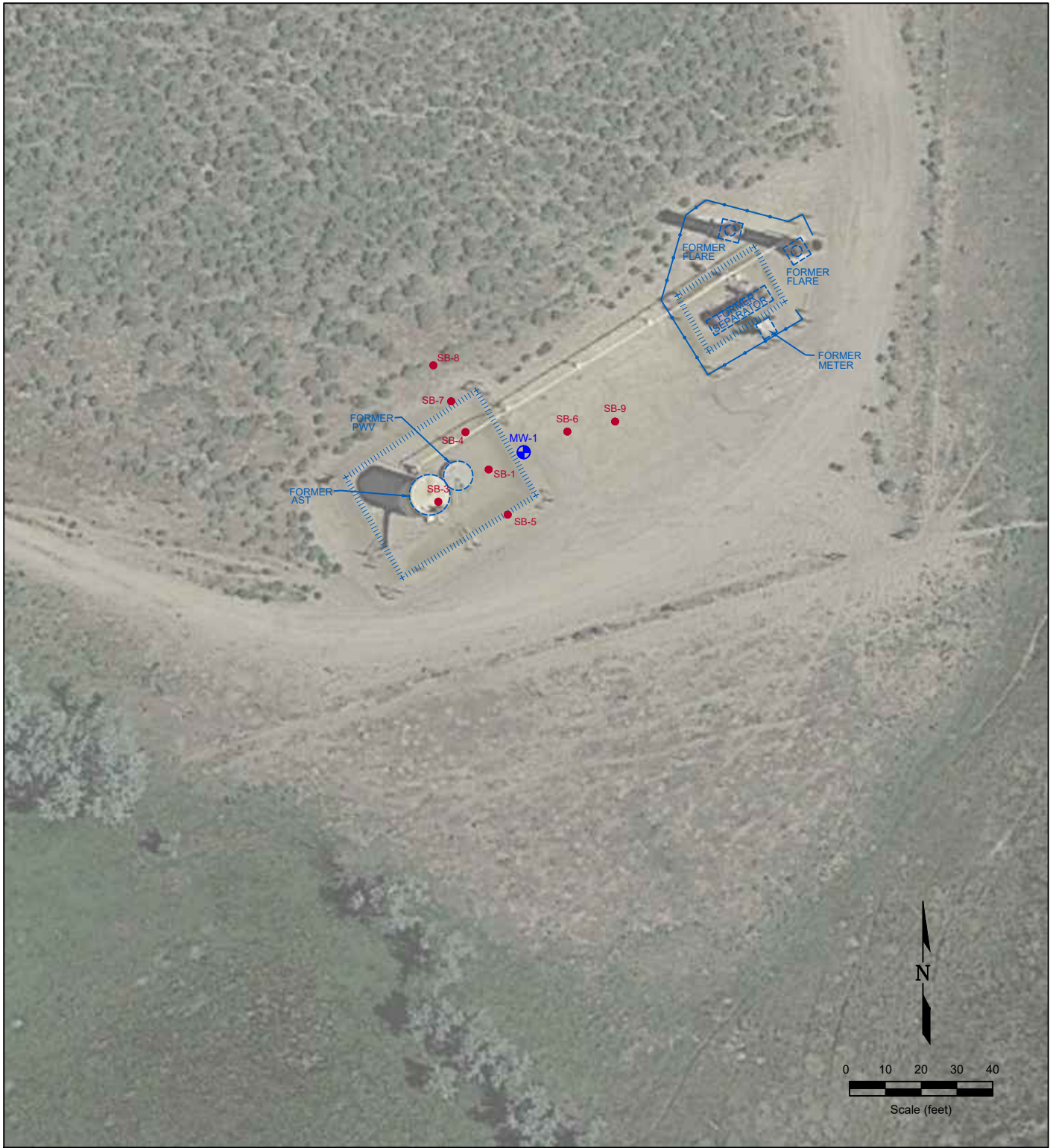
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW**  
 SWNW Sec. 11, T3N, R65W, 6th PM  
 Weld County, Colorado  
 40.243751°, -104.636822°

Project # <b>CO23-125</b>	API #	Facility # <b>332721</b>
Date <b>3/25/24</b>	Remediation # <b>28380</b>	Filename <b>23125T</b>





**LEGEND**

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ◻ FORMER FACILITY
- ▬ CONTAINMENT BERM
- ⊕ MONITORING WELL LOCATION
- FENCE LINE

**Figure 2  
SITE MAP**

**NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW**  
 SWNW Sec. 11, T3N, R65W, 6th PM  
 Weld County, Colorado  
 40.243751°, -104.636822°

Project # <b>CO23-125</b>	API #	Facility # <b>332721</b>
Date <b>3/25/24</b>	Remediation # <b>28380</b>	Filename <b>23125Q1</b>





**LEGEND**

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ◻ FORMER FACILITY
- ▬ CONTAINMENT BERM
- ▬ FENCE LINE
- A — A' CROSS SECTION CUT LINE
- MONITORING WELL LOCATION

**Figure 3  
CROSS SECTION MAP**

**NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW**  
 SWNW Sec. 11, T3N, R65W, 6th PM  
 Weld County, Colorado  
 40.243751°, -104.636822°

Project # <b>CO23-125</b>	API #	Facility # <b>332721</b>
Date <b>3/25/24</b>	Remediation # <b>28380</b>	Filename <b>23125Q1</b>



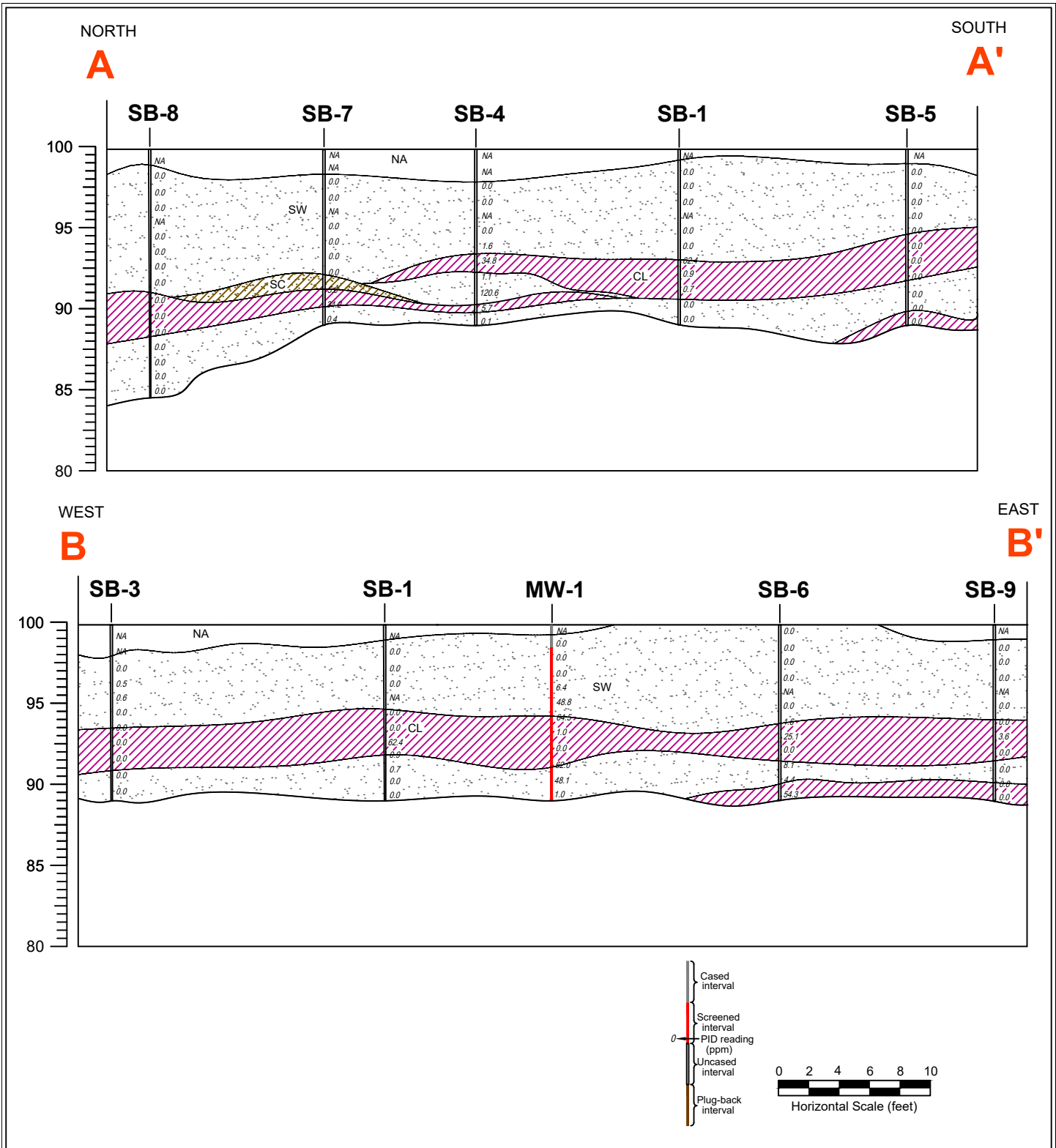
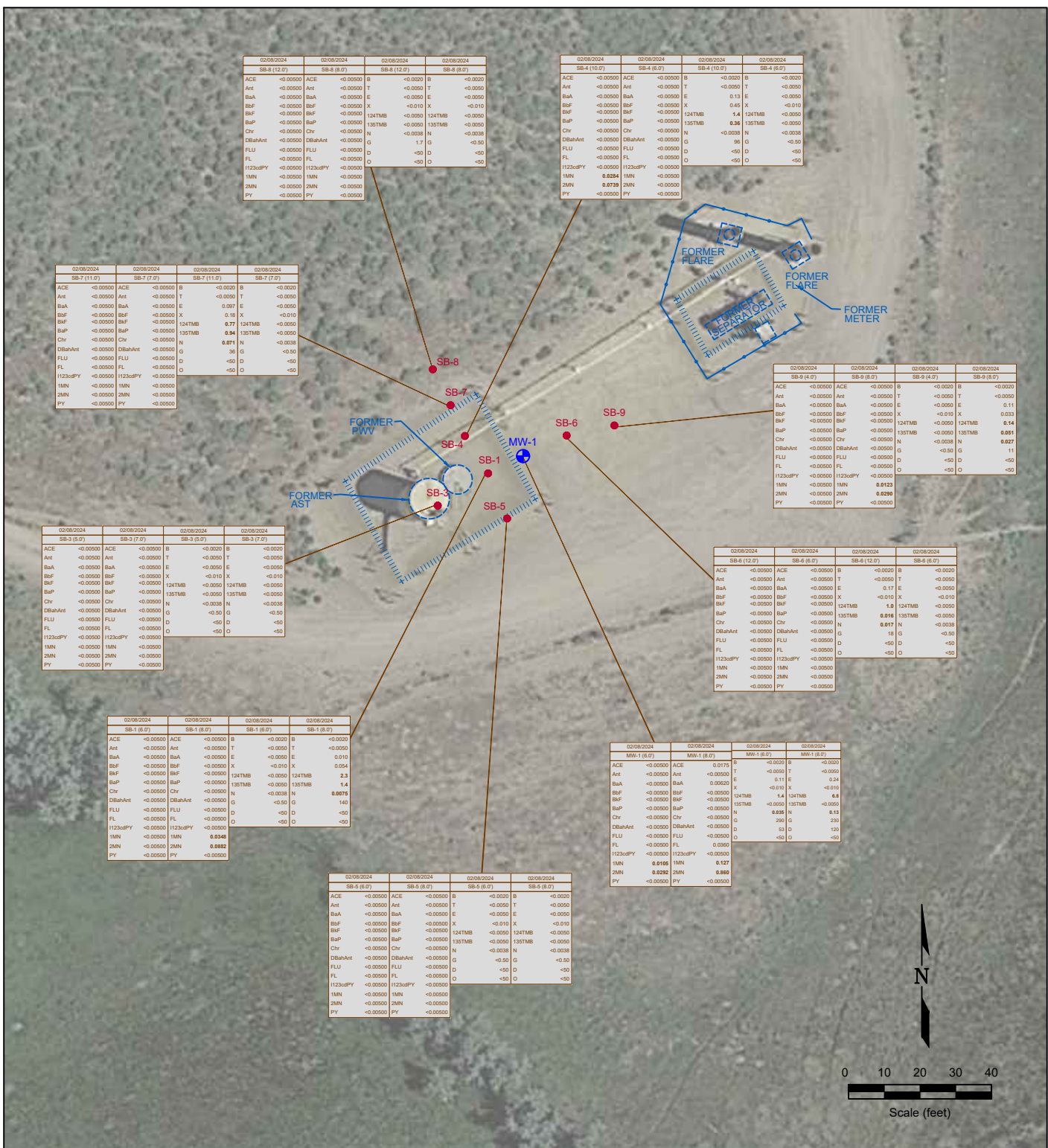


Figure 4  
CROSS SECTIONS A - A' AND B - B'

NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW  
SWSW Sec. 23, T4N, R64W, 6th PM  
Weld County, Colorado  
40.243751°, -104.636822°

Project No. <b>C023-125</b>	API #	Facility # <b>332721</b>
Date <b>3/26/24</b>	Remediation # <b>28380</b>	Filename <b>23125X</b>





**LEGEND**

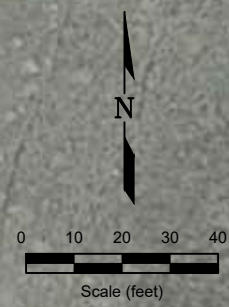
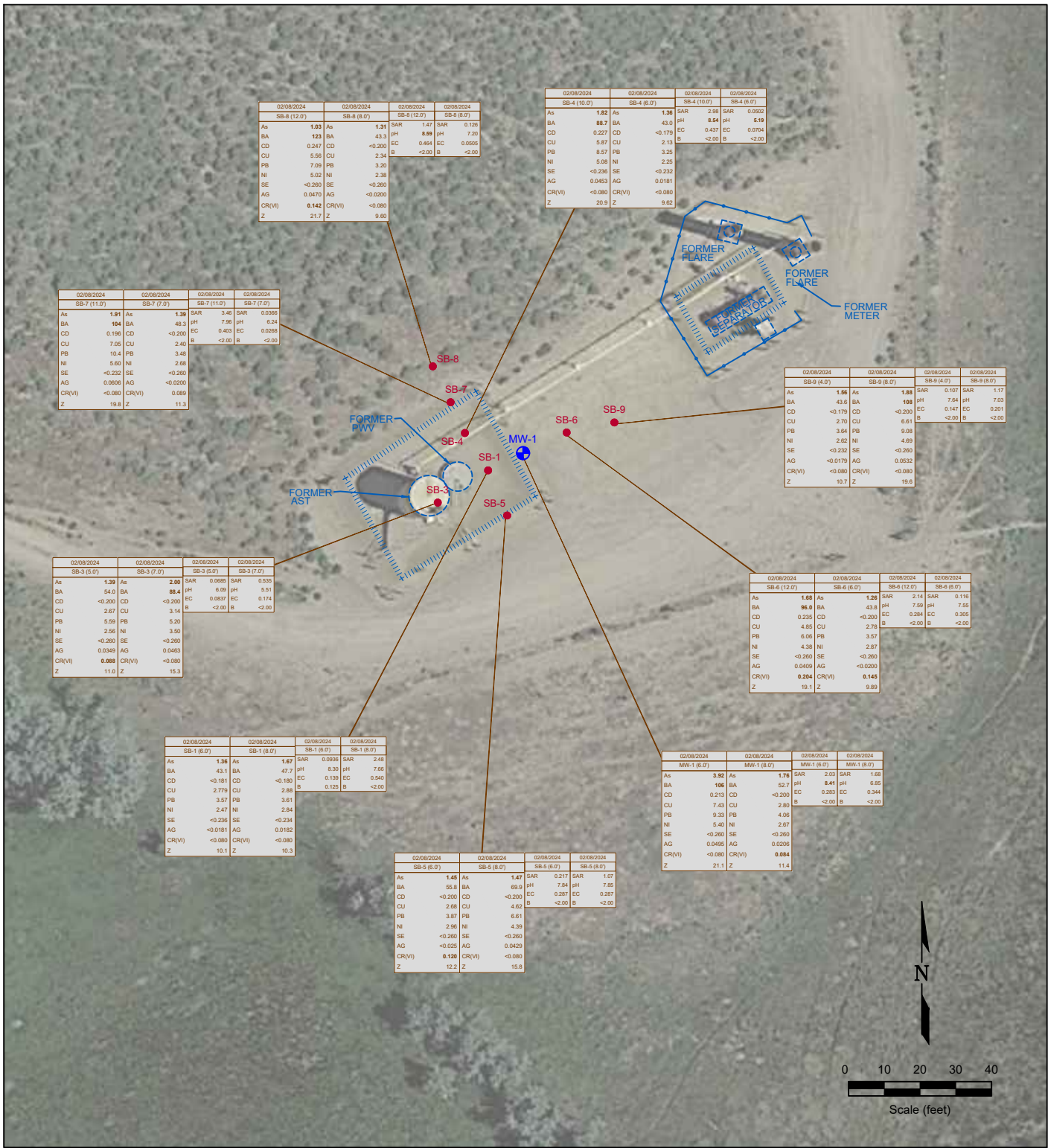
- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- CONTAINMENT BERM
- MONITORING WELL LOCATION
- FENCE LINE

02/08/2024	DATE SAMPLED	02/08/2024	DATE SAMPLED
SB-1 (6.0')	SAMPLE ID and DEPTH (ft)	SB-1 (6.0')	SAMPLE ID and DEPTH (ft)
ACE	<0.0050	ACE	<0.0050
Ant	<0.0050	Ant	<0.0050
BaA	<0.0050	BaA	<0.0050
BaP	<0.0050	BaP	<0.0050
BaF	<0.0050	BaF	<0.0050
BaP	<0.0050	BaP	<0.0050
Chr	<0.0050	Chr	<0.0050
DBaAnt	<0.0050	DBaAnt	<0.0050
FLU	<0.0050	FLU	<0.0050
FL	<0.0050	FL	<0.0050
H123cPY	<0.0050	H123cPY	<0.0050
MAN	0.8168	MAN	0.8248
MN	0.8282	MN	0.8882
MN	<0.0050	MN	<0.0050
PY	<0.0050	PY	<0.0050

**Figure 5**  
**ORGANIC SOIL CHEMISTRY MAP**  
**NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW**  
 SWNW Sec. 11, T3N, R65W, 6th PM  
 Weld County, Colorado  
 40.243751° , -104.636822°

Project #	API #	Facility #
CO23-125		332721
Date	Remediation #	Filename
3/25/24	28380	23125Q1

**REMONT ENVIRONMENTAL**



**LEGEND**

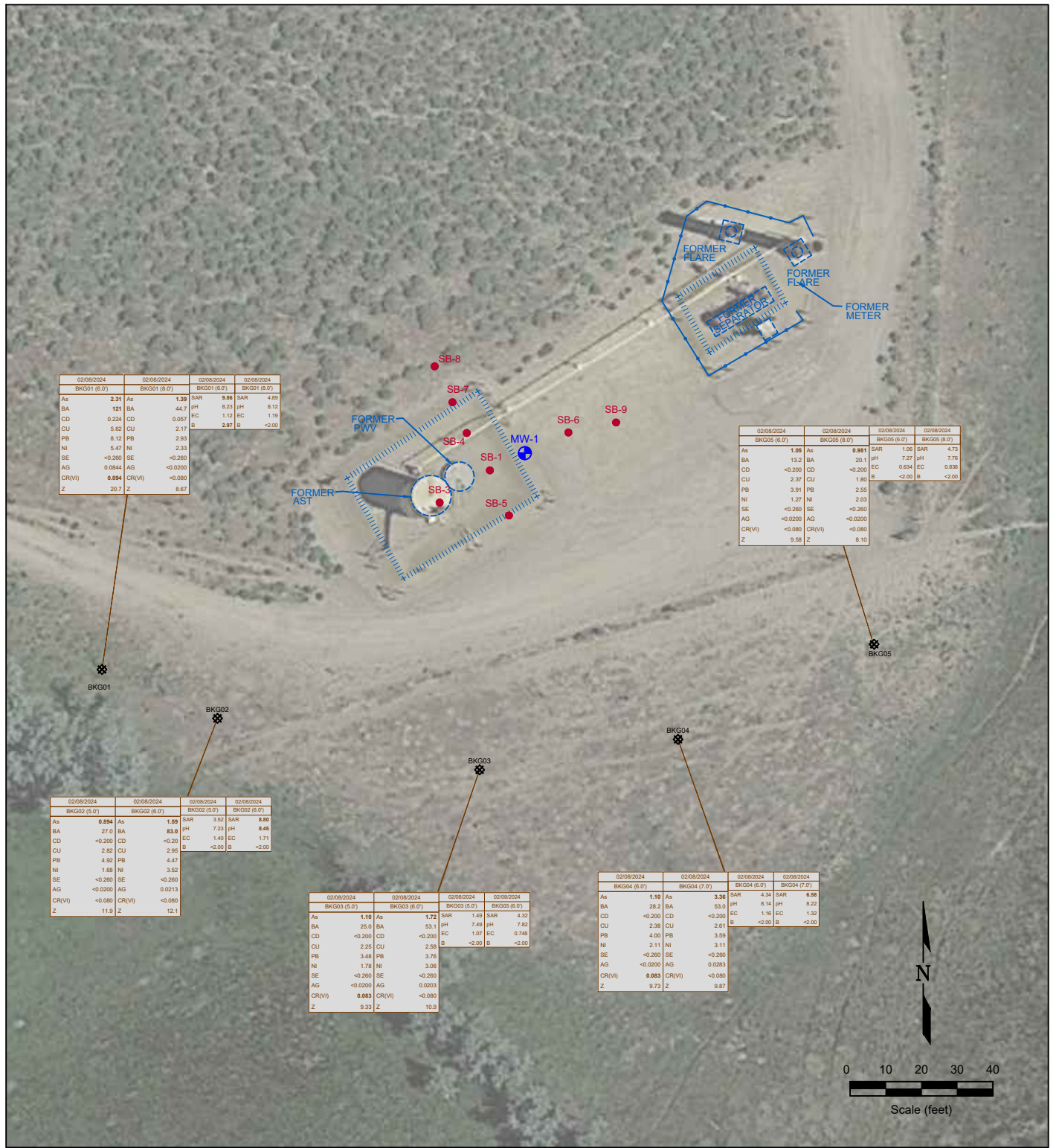
- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- CONTAINMENT BERM
- MONITORING WELL LOCATION
- FENCE LINE

02/08/2024	DATE SAMPLED	02/08/2024	DATE SAMPLED
MW-1 (6.0')	SAMPLE ID & DEPTH (ft)	MW-1 (8.0')	SAMPLE ID & DEPTH (ft)
As	3.94	As	1.76
BA	96.08	BA	52.7
CD	0.202	CD	<0.200
CU	11.00	CU	2.85
PB	9.213	PB	4.06
Ni	11.94	Ni	2.67
SE	3.88	SE	<0.260
AG	<0.260	AG	0.0208
CR(VI)	<0.080	CR(VI)	0.084
Z	35.156	Z	11.4

**Figure 6  
METALS AND INORGANIC SOIL CHEMISTRY MAP**

**NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW**  
 SWNW Sec. 11, T3N, R65W, 6th PM  
 Weld County, Colorado  
 40.243751°, -104.636822°

Project # <b>CO23-125</b>	API #	Facility # <b>332721</b>	
Date <b>6/27/24</b>	Remediation # <b>28380</b>	Filename <b>23125Q1</b>	



02/08/2024		02/08/2024		02/08/2024		02/08/2024	
BKG01 (8.0')		BKG01 (8.0')		BKG01 (8.0')		BKG01 (8.0')	
As	2.31	As	1.39	SAR	9.86	SAR	4.89
BA	121	BA	44.7	pH	8.23	pH	8.12
CD	0.224	CD	0.059	EC	1.12	EC	1.19
CU	5.62	CU	2.11	B	2.97	B	-2.00
PB	8.12	PB	2.93				
NI	5.47	NI	2.33				
SE	<0.260	SE	<0.260				
AG	0.0844	AG	<0.0200				
CR(VI)	0.094	CR(VI)	<0.080				
Z	20.7	Z	8.67				

02/08/2024		02/08/2024		02/08/2024		02/08/2024	
BKG05 (8.0')		BKG05 (8.0')		BKG05 (8.0')		BKG05 (8.0')	
As	1.05	As	0.881	SAR	1.05	SAR	4.73
BA	13.2	BA	20.1	pH	7.27	pH	7.76
CD	<0.200	CD	<0.200	EC	0.54	EC	0.26
CU	2.37	CU	1.80	B	<2.00	B	<2.00
PB	3.91	PB	2.55				
NI	1.27	NI	2.03				
SE	<0.260	SE	<0.260				
AG	<0.0200	AG	<0.0200				
CR(VI)	<0.080	CR(VI)	<0.080				
Z	9.58	Z	8.10				

02/08/2024		02/08/2024		02/08/2024		02/08/2024	
BKG02 (8.0')		BKG02 (8.0')		BKG02 (8.0')		BKG02 (8.0')	
As	0.854	As	1.89	SAR	3.02	SAR	8.80
BA	27.0	BA	83.0	pH	7.23	pH	8.45
CD	<0.200	CD	<0.20	EC	1.40	EC	1.71
CU	2.82	CU	2.95	B	<2.00	B	<2.00
PB	4.52	PB	4.47				
NI	1.68	NI	3.52				
SE	<0.260	SE	<0.260				
AG	<0.0200	AG	0.0213				
CR(VI)	<0.080	CR(VI)	<0.080				
Z	11.9	Z	12.1				

02/08/2024		02/08/2024		02/08/2024		02/08/2024	
BKG03 (5.0')		BKG03 (8.0')		BKG03 (5.0')		BKG03 (8.0')	
As	1.10	As	1.72	SAR	1.48	SAR	4.32
BA	25.0	BA	53.1	pH	7.48	pH	7.82
CD	<0.200	CD	<0.200	EC	1.07	EC	0.748
CU	2.25	CU	2.58	B	<2.00	B	<2.00
PB	3.48	PB	3.76				
NI	1.78	NI	3.00				
SE	<0.260	SE	<0.260				
AG	<0.0200	AG	0.0203				
CR(VI)	0.083	CR(VI)	<0.080				
Z	9.33	Z	10.9				

02/08/2024		02/08/2024		02/08/2024		02/08/2024	
BKG04 (7.0')		BKG04 (7.0')		BKG04 (7.0')		BKG04 (7.0')	
As	1.10	As	3.34	SAR	4.34	SAR	4.88
BA	28.2	BA	53.0	pH	8.14	pH	8.22
CD	<0.200	CD	<0.200	EC	1.16	EC	1.32
CU	2.38	CU	2.61	B	<2.00	B	<2.00
PB	4.00	PB	3.59				
NI	2.11	NI	3.11				
SE	<0.260	SE	<0.260				
AG	<0.0200	AG	0.0283				
CR(VI)	0.083	CR(VI)	<0.080				
Z	9.73	Z	9.87				

**LEGEND**

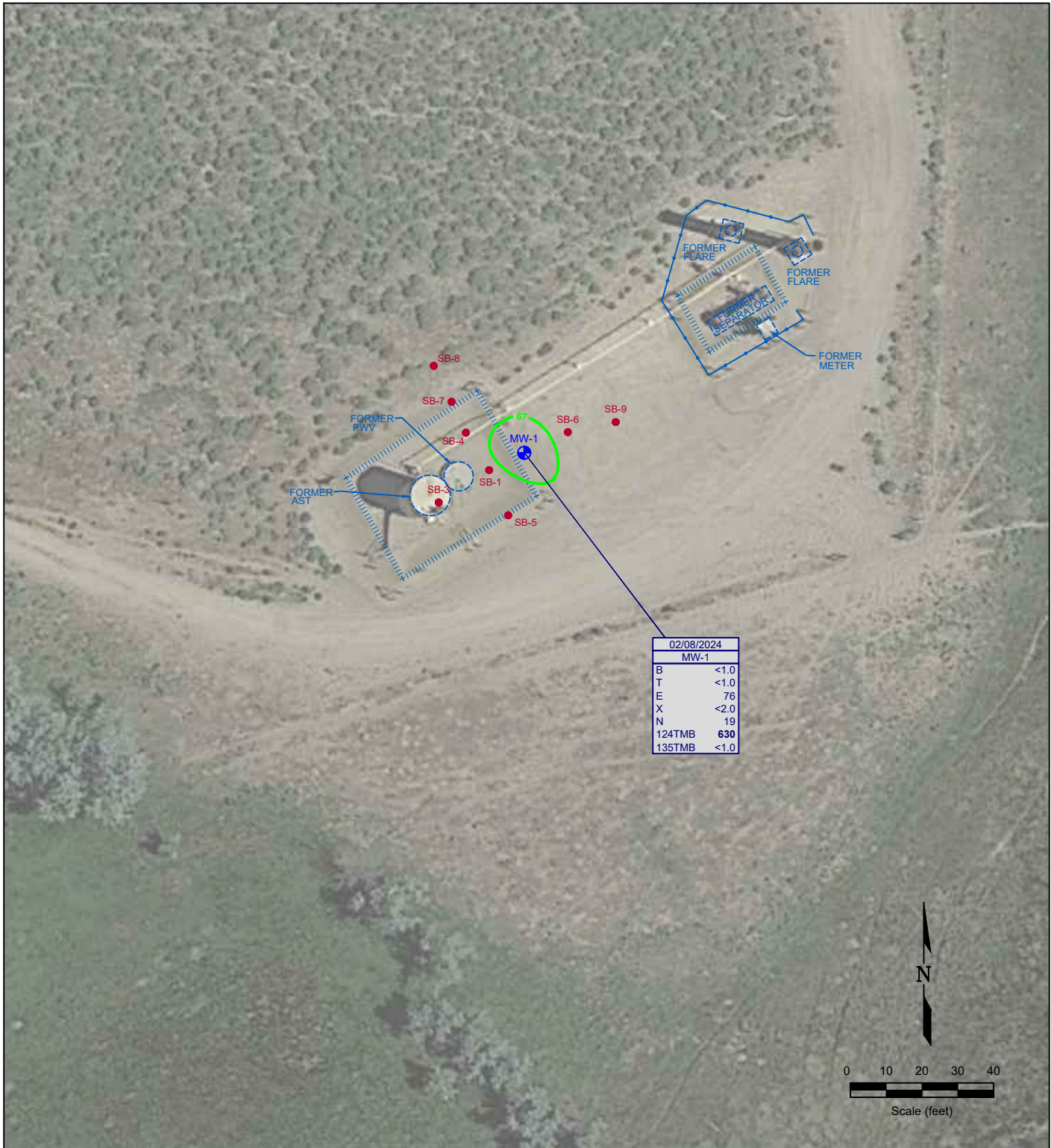
- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ⊕ MONITORING WELL LOCATION
- ⊗ SOIL SAMPLE LOCATION
- FORMER FORMER FACILITY
- CONTAINMENT BERM
- FENCE LINE

DATE SAMPLED	SAMPLE ID & DEPTH (ft)	DATE SAMPLED	SAMPLE ID & DEPTH (ft)
02/08/2024	MW-1 (8.0')	02/08/2024	MW-1 (8.0')
As	3.54	As	2.03
BA	96.048	BA	7.23
CD	0.902	CD	0.260
CU	11.000	CU	0.260
PB	9.213	PB	0.260
NI	11.943	NI	0.260
SE	3.836	SE	0.260
AG	<0.260	AG	0.260
CR(VI)	<0.080	CR(VI)	0.260
Z	35.156	Z	0.260

Figure 7  
**BACKGROUND SAMPLE SOIL CHEMISTRY MAP**

**NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW**  
 SWNW Sec. 11, T3N, R65W, 6th PM  
 Weld County, Colorado  
 40.243751°, -104.636822°

Project # <b>CO23-125</b>	API #	Facility # <b>332721</b>	
Date <b>6/27/24</b>	Remediation # <b>28380</b>	Filename <b>23125Q1</b>	



- LEGEND**
- SOIL BORING LOCATION
  - ABOVE GROUND STORAGE TANK
  - FORMER FORMER FACILITY
  - CONTAINMENT BERM
  - MONITORING WELL LOCATION
  - FENCE LINE

DATE SAMPLED	SAMPLE ID	1, 2, 4 TRIMETHYLBENZENE ISOCONCENTRATION (ug/L)
02/08/2024	MW-1	(dashed where inferred)
B	<1.0	
T	<1.0	
E	76	
X	<2.0	
N	19	
124TMB	630	
135TMB	<1.0	

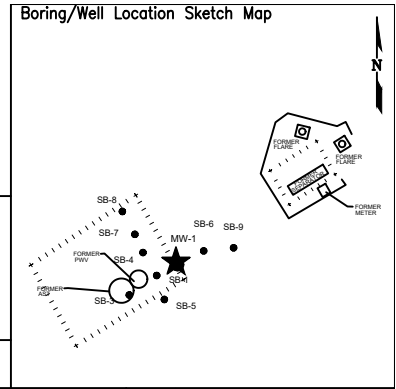
**Figure 8**  
**GROUNDWATER CHEMISTRY WITH 1, 2, 4 TRIMETHYLBENZENE ISO-CONCENTRATION MAP**  
**NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW**  
 SWNW Sec. 11, T3N, R65W, 6th PM  
 Weld County, Colorado  
 40.243751°, -104.636822°

Project # <b>CO23-125</b>	API #	Facility # <b>332721</b>
Date <b>3/25/24</b>	Remediation # <b>28380</b>	Filename <b>23125Q1</b>





# BORING/WELL CONSTRUCTION LOG



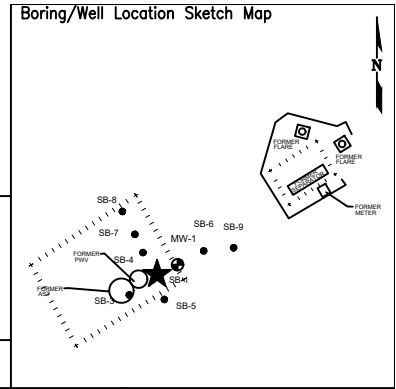
Page 1 of 1

Boring/Well No. <b>MW-1</b>		Total Depth <b>12'</b>	Location <b>Noble Energy, Inc. Cornelius-63N65W 11SWNW SWNW Sec. 11, T3N, R65W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>CO23-125/ Noble Cornelius-63N65W 11SWNW</b>		Drilling Contractor/Driller <b>Drill Pro</b>				
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By				
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>02/08/2024</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. <b>PVC 1"</b>	Screen: Type <b>slotted</b> Mtrl. <b>PVC</b> Length <b>10'</b> Dia. <b>1"</b> Slot Size <b>0.010"</b>				
Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured <b>7.70 02/08/2024</b>	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
	Bentonite	1" Blank	NA				NA
			Sand, tan, fine, no odor		70%		0.0
		<b>SW</b>					0.0
5	#10-20 Silica Sand	1" Screen	Sand, tan, fine, light odor				6.4
			Clay, gray, black, odor		100%		48.8
		<b>CL</b>					64.5
			Saturated clay, gray, black, odor				1.0
			Sand, tan, medium coarse, no odor				0.0
10			Sand, gray, medium coarse, odor		100%		62.0
			Sand, tan, medium coarse, no odor				48.1
			TD 12'				1.0
15							
20							



# BORING/WELL CONSTRUCTION LOG



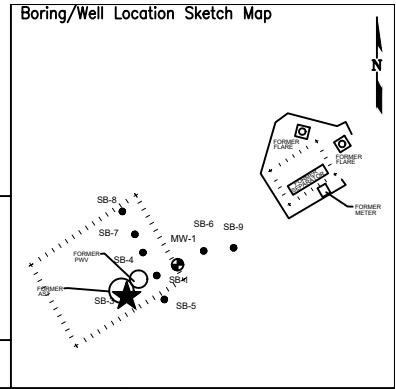
Page 1 of 1

Boring/Well No. <b>SB-1</b>		Total Depth <b>12'</b>	Location <b>Noble Energy, Inc. Cornelius-63N65W 11SWNW SWNW Sec. 11, T3N, R65W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>CO23-125/ Noble Cornelius-63N65W 11SWNW</b>		Drilling Contractor/Driller <b>Drill Pro</b>					
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By					
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>02/08/2024</b>			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5			NA				NA
		SW	Sand, tan, fine, no stain		60%	0.0	0.0
		SW	Sand, tan, fine, no stain			0.0	0.0
		SW	Saturated, sand medium coarse, tan, no odor		60%	0.0	0.0
		CL	Clay, black, odor			62.4	0.9
10		CL	Clay, gray, light odor			0.7	0.0
		SW	Sand, fine, tan, medium, no odor		85%	0.0	0.0
15			TD 12'				0.0
20							



# BORING/WELL CONSTRUCTION LOG



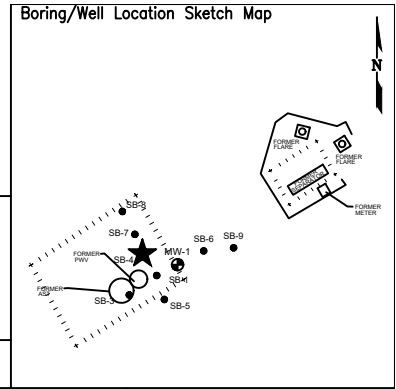
Page 1 of 1

Boring/Well No. <b>SB-3</b>		Total Depth <b>12'</b>	Location <b>Noble Energy, Inc. Cornelius-63N65W 11SWNW SWNW Sec. 11, T3N, R65W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>CO23-125/ Noble Cornelius-63N65W 11SWNW</b>		Drilling Contractor/Driller <b>Drill Pro</b>					
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By					
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>02/08/2024</b>			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Empty Well Construction Column]	[Empty Graphic Log Column]	NA				NA
			NA			50%	NA
			SW	Sand, tan, fine, no odor			0.0
			SW	Saturated, sand medium coarse, tan		100%	0.0
			CL	Clay, brown, no odor			0.0
10	[Empty Well Construction Column]	[Empty Graphic Log Column]	SW	Sand, medium coarse, tan, no odor		100%	0.0
							0.0
							0.0
15	[Empty Well Construction Column]	[Empty Graphic Log Column]					0.0
							0.0
							0.0
							0.0
							0.0
20	[Empty Well Construction Column]	[Empty Graphic Log Column]					0.0
							0.0
							0.0
						0.0	



# BORING/WELL CONSTRUCTION LOG

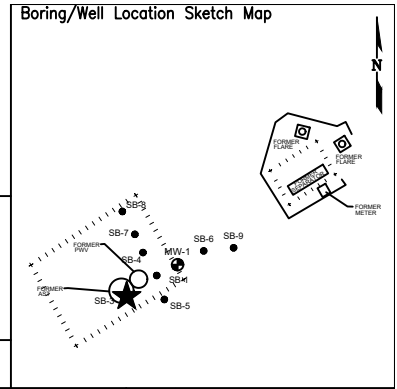


Page 1 of 1

Boring/Well No. <b>SB-4</b>		Total Depth <b>12'</b>	Location <b>Noble Energy, Inc. Cornelius-63N65W 11SWNW SWNW Sec. 11, T3N, R65W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>CO23-125/ Noble Cornelius-63N65W 11SWNW</b>		Drilling Contractor/Driller <b>Drill Pro</b>					
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By					
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>02/08/2024</b>			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
			NA				NA
			NA		50%		NA
			Sand, tan, fine, no odor			0.0	0.0
5		SW				0.0	NA
			Saturated, sand medium coarse, tan		65%	0.0	1.6
		CL	Clay, gray, odor			34.8	
10		SW	Sand, medium coarse, tan, light odor		95%	1.1	120.6
		CL	Clay, gray, odor			5.7	
		SW	Sand, medium coarse, tan, no odor			0.1	
			TD 12'				
15							
20							

# BORING/WELL CONSTRUCTION LOG



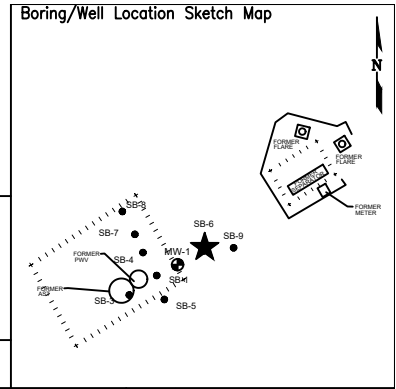
Page 1 of 1

Boring/Well No. <b>SB-3</b>	Total Depth <b>12'</b>	Location <b>Noble Energy, Inc. Cornelius-63N65W 11SWNW SWNW Sec. 11, T3N, R65W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>CO23-125/ Noble Cornelius-63N65W 11SWNW</b>		Drilling Contractor/Driller <b>Drill Pro</b>				
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By				
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>02/08/2024</b>		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5			NA				NA
			NA		50%		NA
		SW	Sand, tan, fine, no odor				0.0
							0.5
							0.6
10		SP	Saturated, sand medium coarse, tan		100%		0.0
							0.0
		CL	Clay, brown, no odor				0.0
							0.0
15		SW	Sand, medium coarse, tan, no odor		100%		0.0
							0.0
							0.0
20			TD 12'				0.0



# BORING/WELL CONSTRUCTION LOG



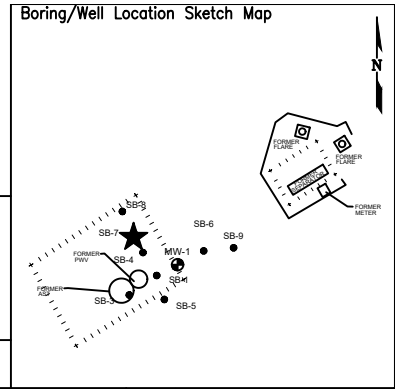
Page 1 of 1

Boring/Well No. <b>SB-6</b>		Total Depth <b>12'</b>	Location <b>Noble Energy, Inc. Cornelius-63N65W 11SWNW SWNW Sec. 11, T3N, R65W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>CO23-125/ Noble Cornelius-63N65W 11SWNW</b>		Drilling Contractor/Driller <b>Drill Pro</b>					
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By					
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>02/08/2024</b>			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Well Construction Diagram]	SW	Sand, tan, fine, no odor	95%	95%		0.0
							0.0
							0.0
							0.0
							NA
10	[Well Construction Diagram]		Saturated sand, tan, medium coarse, no odor	98%	85%		0.0
							1.6
		CL	Clay, gray, odor				25.1
		SW	Sand, tan, medium coarse, no odor				0.0
			Sand, gray, medium coarse, light odor				8.1
15	[Well Construction Diagram]	CL	Clay, gray, odor				4.4
20			TD 12'				54.3



# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

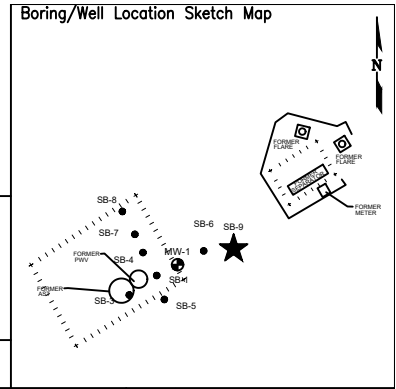
Boring/Well No. <b>SB-7</b>		Total Depth <b>12'</b>	Location <b>Noble Energy, Inc. Cornelius-63N65W 11SWNW SWNW Sec. 11, T3N, R65W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>CO23-125/ Noble Cornelius-63N65W 11SWNW</b>		Drilling Contractor/Driller <b>Drill Pro</b>					
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By					
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>02/08/2024</b>			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
			NA				NA
			NA		50%		NA
			Sand, tan fine, no odor				0.0
		<b>SW</b>					0.0
<b>5</b>			NA				NA
					65%		0.0
			Saturated sand, medium coarse, tan				0.0
							0.0
<b>10</b>			Sandy clay, gray, light odor		79%		5.6
		<b>SC</b>					
		<b>CL</b>	Clay, gray, odor				34.2
		<b>SW</b>	Sand, medium coarse, tan, light odor				
			TD 12'				0.4
<b>15</b>							
<b>20</b>							





# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. <b>SB-9</b>		Total Depth <b>12'</b>	Location <b>Noble Energy, Inc. Cornelius-63N65W 11SWNW SWNW Sec. 11, T3N, R65W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>CO23-125/ Noble Cornelius-63N65W 11SWNW</b>		Drilling Contractor/Driller <b>Drill Pro</b>					
Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		Approved By					
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>02/08/2024</b>			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Empty Well Construction Column]	[Empty Graphic Log Column]	NA				NA
			SW	Sand, tan, fine, no odor		68%	0.0
			SW	Saturated sand, gray, medium coarse, no odor		76%	0.0
			CL	Clay, gray, light odor			3.6
			SW	Sand, medium coarse, gray, no odor		100%	0.0
10	[Empty Well Construction Column]	[Empty Graphic Log Column]	SW	Sand, tan, medium coarse, no odor			0.0
			CL	Clay, brown, no odor			0.0
			CL	TD 12'			0.0
15	[Empty Well Construction Column]	[Empty Graphic Log Column]					
20	[Empty Well Construction Column]	[Empty Graphic Log Column]					

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 09, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Cornelius 63N65W 115WNW

Work Order #2402152

Enclosed are the results of analyses for samples received by Summit Scientific on 02/08/24 16:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 (6.0')	2402152-01	Soil	02/08/24 00:00	02/08/24 16:36
SB-1 (8.0')	2402152-02	Soil	02/08/24 00:00	02/08/24 16:36
MW-1 (6.0')	2402152-03	Soil	02/08/24 00:00	02/08/24 16:36
MW-1 (8.0')	2402152-04	Soil	02/08/24 00:00	02/08/24 16:36
SB-3 (5.0')	2402152-05	Soil	02/08/24 00:00	02/08/24 16:36
SB-3 (7.0')	2402152-06	Soil	02/08/24 00:00	02/08/24 16:36
SB-4 (6.0')	2402152-07	Soil	02/08/24 00:00	02/08/24 16:36
SB-4 (10.0')	2402152-08	Soil	02/08/24 00:00	02/08/24 16:36
SB-5 (6.0')	2402152-09	Soil	02/08/24 00:00	02/08/24 16:36
SB-5 (8.0')	2402152-10	Soil	02/08/24 00:00	02/08/24 16:36
SB-6 (6.0')	2402152-11	Soil	02/08/24 00:00	02/08/24 16:36
SB-6 (12.0')	2402152-12	Soil	02/08/24 00:00	02/08/24 16:36
SB-7 (7.0')	2402152-13	Soil	02/08/24 00:00	02/08/24 16:36
SB-7 (11.0')	2402152-14	Soil	02/08/24 00:00	02/08/24 16:36
SB-8 (8.0')	2402152-15	Soil	02/08/24 00:00	02/08/24 16:36
SB-8 (12.0')	2402152-16	Soil	02/08/24 00:00	02/08/24 16:36
SB-9 (4.0')	2402152-17	Soil	02/08/24 00:00	02/08/24 16:36
SB-9 (8.0')	2402152-18	Soil	02/08/24 00:00	02/08/24 16:36
MW-1	2402152-19	Water	02/08/24 00:00	02/08/24 16:36

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 2402152.1 Page 1 of 2

Send Data To:		Send Invoice To:	
Client: <u>Fremont Env</u>	Project Manager: <u>Paul Henahan</u>	Company:	
Address:	E-Mail: <u>Paul.h@fremontenv.com</u>	Project Name/Location:	
City/State/Zip:	<u>jeff@fremontenv.com Ethel@fremontenv.com</u>	AFE#:	
Phone:	Project Name: <u>Cornelius 63N65W 11SUNW</u>	PO/Billing Codes: <u>UWRWE-A2105-ABN</u>	
Sampler Name: <u>J6</u>	Project Number:	Contact:	

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+N	TMS (915)	DRO,ORO,GRO	PAHs (915)	EC,PH,SAR, Baran	Metals (915)	
1	SB-1 (6.0')	2/8/24		2			X			X			X	X	X	X	X		
2	SB-1 (8.0')																		
3	MU-1 (6.0')																		
4	MU-1 (8.0')																		
5	SB-3 (5.0')																		
6	SB-3 (7.0')																		
7	SB-4 (6.0')																		
8	SB-4 (10.0')																		
9	SB-5 (6.0')																		
10	SB-5 (8.0')																		
11	SB-6 (6.0')																		
12	SB-6 (12.0')																		
13	SB-7 (7.0')																		
14	SB-7 (11.0')																		
15	SB-8 (8.0')																		

Relinquished by: <u>[Signature]</u> Date/Time: <u>2/8/24</u>	Received by: <u>[Signature]</u> Date/Time: <u>2/8/24 16:36</u>	TAT Business Days	Field DO	Notes:
		Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
		2 Days	Field pH	
		3 Days	Field Temp.	
Temperature Upon Receipt: <u>14.9</u>	Corrected Temperature	Standard	<input checked="" type="checkbox"/> Field Turb.	
		IR gun #: <u>2</u>	HNO3 lot #:	

# SUMMIT SCIENTIFIC

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

Lab ID: 2402152.2 Page 2 of 2

Client: <u>Fremont Env</u>		Send Data To: Project Manager: <u>Paul Henehan</u>		Send Invoice To: Company:	
Address:		E-Mail: <u>Paulh@fremontenv.com</u>		Project Name/Location:	
City/State/Zip:		<u>jeff@fremontenv.com Ethanh@fremontenv.com</u>		AFE#:	
Phone:		Project Name: <u>Cornelius 63N6SW 11SWNW</u>		PO/Billing Codes: <u>UWRWE-A2105-ABN</u>	
Sampler Name: <u>JG</u>		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil		Other	BTEX+N	TMBs(915)	DRD,ORO,GRO	PAHs(915)	ECIPH,SAR, Boron	
1	SB-8 (12.0')	2/8/24		2			X			X		X	X	X	X	X		
2	SB-9 (4.0')	↓		1														
3	SB-9 (8.0')	↓		2			X			X				X	X	X	X	
4	MU-2	↓		3	X				X			X	X					
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>JG</u> Date/Time: <u>2/8/24</u>	Received by: <u>Ash Eth</u> Date/Time: <u>2/8/24 16:30</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Received by:	Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
Relinquished by:	Received by:	2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
Temperature Upon Receipt: _____	Corrected Temperature _____	IR gun #: _____	HNO3 lot #: _____	Standard <input checked="" type="checkbox"/> Field Turb.

S<sub>2</sub>

2/2

S2 Work Order# 2402152

Sample Receipt Checklist

Client: Fremont Client Project ID: Cornelius b3N65W 115WNW

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

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

Temp (°C) 14.9 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

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

AS  
Custodian Printed Name

2/8/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-1 (6.0')**  
**2402152-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0375	93.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHB0421	02/13/24	02/13/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	16.0	128 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-1 (6.0')**  
**2402152-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0175	52.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Arsenic</b>	<b>1.36</b>	0.181	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
<b>Barium</b>	<b>43.1</b>	0.362	"	"	"	"	"	"	
Cadmium	ND	0.181	"	"	"	"	"	"	
<b>Copper</b>	<b>2.44</b>	0.362	"	"	"	"	"	"	
<b>Lead</b>	<b>3.57</b>	0.181	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.47</b>	0.362	"	"	"	"	"	"	
Silver	ND	0.0181	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-1 (6.0')**  
**2402152-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Zinc	10.1	0.362	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Selenium	ND	0.236	"	"	"	"	"	"	"

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	101	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	26.9	0.0500	"	"	"	"	"	"	
Sodium	4.10	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0936	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.8		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.139	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-1 (6.0')**  
**2402152-01 (Soil)**


**Summit Scientific**

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.30</b>		pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-1 (8.0')**  
**2402152-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.010</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.054</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>2.3</b>	0.50	"	100	"	"	02/14/24	"	
<b>1,3,5-Trimethylbenzene</b>	<b>1.4</b>	0.50	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.0075</b>	0.0038	"	1	"	"	02/14/24	"	
<b>Gasoline Range Hydrocarbons</b>	<b>140</b>	50	"	100	"	"	02/14/24	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0386	96.4 %	50-150	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0420	105 %	50-150	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0452	113 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/13/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	16.7	133 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-1 (8.0')**  
**2402152-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0348</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0882</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0175	52.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0197	59.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-1 (8.0')**  
**2402152-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.67	0.180	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	47.7	0.360	"	"	"	"	"	"	
Cadmium	ND	0.180	"	"	"	"	"	"	
Copper	2.88	0.360	"	"	"	"	"	"	
Lead	3.61	0.180	"	"	"	"	"	"	
Nickel	2.84	0.360	"	"	"	"	"	"	
Silver	0.0182	0.0180	"	"	"	"	"	"	
Zinc	10.3	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	33.8	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	15.5	0.0500	"	"	"	"	"	"	
Sodium	69.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.48	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-1 (8.0')**  
**2402152-02 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**


Specific Conductance (EC)	<b>0.540</b>	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.66</b>			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**MW-1 (6.0')**  
**2402152-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.11</b>	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>1.4</b>	0.050	"	10	"	"	02/14/24	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	1	"	"	02/14/24	"	
<b>Naphthalene</b>	<b>0.035</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>290</b>	5.0	"	10	"	"	02/14/24	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0361	90.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.139	347 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>53</b>	50	mg/kg	1	BHB0421	02/13/24	02/13/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.4	131 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**MW-1 (6.0')**  
**2402152-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0105</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0292</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0171	51.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**MW-1 (6.0')**  
**2402152-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.92	0.200	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	106	0.400	"	"	"	"	"	"	
Cadmium	0.213	0.200	"	"	"	"	"	"	
Copper	7.43	0.400	"	"	"	"	"	"	
Lead	9.33	0.200	"	"	"	"	"	"	
Nickel	5.40	0.400	"	"	"	"	"	"	
Silver	0.0495	0.0200	"	"	"	"	"	"	
Zinc	21.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.1	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	19.6	0.0500	"	"	"	"	"	"	
Sodium	60.4	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.03	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.1		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**MW-1 (6.0')  
 2402152-03 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Specific Conductance (EC)	0.283	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.41			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**MW-1 (8.0')**  
**2402152-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.24</b>	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>6.8</b>	0.50	"	100	"	"	02/14/24	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	1	"	"	02/14/24	"	
<b>Naphthalene</b>	<b>0.13</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>230</b>	50	"	100	"	"	02/14/24	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0373	93.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0473	118 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>120</b>	50	mg/kg	1	BHB0421	02/13/24	02/13/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.2	129 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**MW-1 (8.0')  
2402152-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Acenaphthene</b>	<b>0.0175</b>	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.00620</b>	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0360</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.127</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.860</b>	0.00500	"	"	"	"	"	"	E

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0139	41.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**MW-1 (8.0')**  
**2402152-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.76	0.200	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	52.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.80	0.400	"	"	"	"	"	"	
Lead	4.06	0.200	"	"	"	"	"	"	
Nickel	2.67	0.400	"	"	"	"	"	"	
Silver	0.0206	0.0200	"	"	"	"	"	"	
Zinc	11.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.7	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	10.3	0.0500	"	"	"	"	"	"	
Sodium	38.9	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.68	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.8		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**MW-1 (8.0')  
 2402152-04 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**


Specific Conductance (EC)	0.344	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	6.85			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-3 (5.0')**  
**2402152-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0419	105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHB0421	02/13/24	02/13/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	15.9	128 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-3 (5.0')**  
**2402152-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0156	46.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-3 (5.0')**  
**2402152-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.39	0.200	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	54.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.67	0.400	"	"	"	"	"	"	
Lead	5.59	0.200	"	"	"	"	"	"	
Nickel	2.56	0.400	"	"	"	"	"	"	
Silver	0.0349	0.0200	"	"	"	"	"	"	
Zinc	11.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	150	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	60.4	0.0500	"	"	"	"	"	"	
Sodium	3.93	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0685	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-3 (5.0')**  
**2402152-05 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**


Specific Conductance (EC)	0.0837	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	6.09			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
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Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-3 (7.0')**  
**2402152-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

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

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-3 (7.0')**  
**2402152-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0138	41.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-3 (7.0')**  
**2402152-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.00	0.200	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	88.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.14	0.400	"	"	"	"	"	"	
Lead	5.20	0.200	"	"	"	"	"	"	
Nickel	3.50	0.400	"	"	"	"	"	"	
Silver	0.0463	0.0200	"	"	"	"	"	"	
Zinc	15.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.2	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	9.01	0.0500	"	"	"	"	"	"	
Sodium	11.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.535	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.4		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-3 (7.0')  
 2402152-06 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

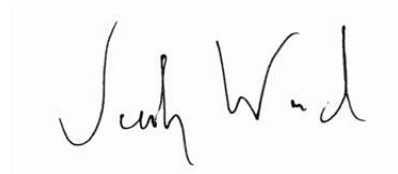
Specific Conductance (EC)	0.174	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	5.51			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-4 (6.0')**  
**2402152-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.3	131 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-4 (6.0')**  
**2402152-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	49.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0135	40.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-4 (6.0')**  
**2402152-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.36	0.179	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	43.0	0.357	"	"	"	"	"	"	
Cadmium	ND	0.179	"	"	"	"	"	"	
Copper	2.13	0.357	"	"	"	"	"	"	
Lead	3.25	0.179	"	"	"	"	"	"	
Nickel	2.25	0.357	"	"	"	"	"	"	
Silver	0.0181	0.0179	"	"	"	"	"	"	
Zinc	9.62	0.357	"	"	"	"	"	"	
Selenium	ND	0.232	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	131	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	42.6	0.0500	"	"	"	"	"	"	
Sodium	2.58	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0502	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.7		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-4 (6.0')**  
**2402152-07 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Specific Conductance (EC)	0.0704	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	5.19			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-4 (10.0')**  
**2402152-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.020	mg/kg	10	BHB0420	02/13/24	02/14/24	EPA 8260B	R-05
Toluene	ND	0.050	"	"	"	"	"	"	R-05
<b>Ethylbenzene</b>	<b>0.13</b>	0.050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.45</b>	0.10	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>1.4</b>	0.050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.36</b>	0.050	"	"	"	"	"	"	
Naphthalene	ND	0.038	"	"	"	"	"	"	R-05
<b>Gasoline Range Hydrocarbons</b>	<b>96</b>	5.0	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0379	94.7 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0377	94.3 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0730	182 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	17.3	139 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-4 (10.0')**  
**2402152-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0284</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0739</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0170	50.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-4 (10.0')**  
**2402152-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.82	0.181	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	88.7	0.362	"	"	"	"	"	"	
Cadmium	0.227	0.181	"	"	"	"	"	"	
Copper	5.87	0.362	"	"	"	"	"	"	
Lead	8.57	0.181	"	"	"	"	"	"	
Nickel	5.08	0.362	"	"	"	"	"	"	
Silver	0.0453	0.0181	"	"	"	"	"	"	
Zinc	20.9	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.7	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	14.4	0.0500	"	"	"	"	"	"	
Sodium	72.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.98	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.3		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
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Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-4 (10.0')**  
**2402152-08 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Specific Conductance (EC)	0.437	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.54			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-5 (6.0')**  
**2402152-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	17.3	139 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-5 (6.0')**  
**2402152-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0200	59.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-5 (6.0')**  
**2402152-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.45	0.200	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	55.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.68	0.400	"	"	"	"	"	"	
Lead	3.87	0.200	"	"	"	"	"	"	
Nickel	2.96	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	308	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	126	0.0500	"	"	"	"	"	"	
Sodium	17.9	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.217	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.0		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-5 (6.0')**  
**2402152-09 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.287</b>	0.0100		mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.84</b>			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-5 (8.0')**  
**2402152-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0392	97.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.5	132 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-5 (8.0')**  
**2402152-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0139	41.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	57.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-5 (8.0')**  
**2402152-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.47	0.200	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	69.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.62	0.400	"	"	"	"	"	"	
Lead	6.61	0.200	"	"	"	"	"	"	
Nickel	4.39	0.400	"	"	"	"	"	"	
Silver	0.0429	0.0200	"	"	"	"	"	"	
Zinc	15.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	122	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	67.4	0.0500	"	"	"	"	"	"	
Sodium	59.4	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.07	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-5 (8.0')**  
**2402152-10 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**


Specific Conductance (EC)	0.287	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.85			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-6 (6.0')**  
**2402152-11 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0425	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.8	134 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

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04/09/24 11:36

**SB-6 (6.0')**  
**2402152-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0135	40.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0160	48.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
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Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-6 (6.0')**  
**2402152-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.26	0.200	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	43.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.78	0.400	"	"	"	"	"	"	
Lead	3.57	0.200	"	"	"	"	"	"	
Nickel	2.87	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.89	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	271	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	85.3	0.0500	"	"	"	"	"	"	
Sodium	8.59	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.116	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.7		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

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Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-6 (6.0')**  
**2402152-11 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.305</b>	0.0100		mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.55</b>			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-6 (12.0')**  
**2402152-12 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.17</b>	0.050	"	10	"	"	02/14/24	"	
Xylenes (total)	ND	0.010	"	1	"	"	02/14/24	"	
<b>1,2,4-Trimethylbenzene</b>	<b>1.0</b>	0.050	"	10	"	"	02/14/24	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.016</b>	0.0050	"	1	"	"	02/14/24	"	
<b>Naphthalene</b>	<b>0.017</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>18</b>	5.0	"	10	"	"	02/14/24	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0380	94.9 %	50-150	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0408	102 %	50-150	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0437	109 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	16.3	131 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-6 (12.0')**  
**2402152-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-6 (12.0')**  
**2402152-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.68	0.200	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	96.0	0.400	"	"	"	"	"	"	
Cadmium	0.235	0.200	"	"	"	"	"	"	
Copper	4.85	0.400	"	"	"	"	"	"	
Lead	6.06	0.200	"	"	"	"	"	"	
Nickel	4.38	0.400	"	"	"	"	"	"	
Silver	0.0409	0.0200	"	"	"	"	"	"	
Zinc	19.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.8	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	20.6	0.0500	"	"	"	"	"	"	
Sodium	63.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.14	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	74.6		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-6 (12.0')**  
**2402152-12 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Specific Conductance (EC)	0.284	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.59			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-7 (7.0')**  
**2402152-13 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0382	95.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0436	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.3	130 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-7 (7.0')**  
**2402152-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0153	45.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-7 (7.0')**  
**2402152-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.39	0.200	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	48.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.40	0.400	"	"	"	"	"	"	
Lead	3.48	0.200	"	"	"	"	"	"	
Nickel	2.68	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	181	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	66.0	0.0500	"	"	"	"	"	"	
Sodium	2.26	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0366	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.2		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

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 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-7 (7.0')**  
**2402152-13 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.0268</b>	0.0100		mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>6.24</b>			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-7 (11.0')**  
**2402152-14 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.020	mg/kg	10	BHB0420	02/13/24	02/14/24	EPA 8260B	R-05
Toluene	ND	0.050	"	"	"	"	"	"	R-05
<b>Ethylbenzene</b>	<b>0.097</b>	0.050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.18</b>	0.10	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.77</b>	0.050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.94</b>	0.050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.071</b>	0.038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>36</b>	5.0	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0365	91.2 %	50-150	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0390	97.6 %	50-150	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0500	125 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	16.6	133 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-7 (11.0')**  
**2402152-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	48.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-7 (11.0')**  
**2402152-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.91	0.179	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	104	0.357	"	"	"	"	"	"	
Cadmium	0.196	0.179	"	"	"	"	"	"	
Copper	7.05	0.357	"	"	"	"	"	"	
Lead	10.4	0.179	"	"	"	"	"	"	
Nickel	5.60	0.357	"	"	"	"	"	"	
Silver	0.0606	0.0179	"	"	"	"	"	"	
Zinc	19.8	0.357	"	"	"	"	"	"	
Selenium	ND	0.232	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.2	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	77.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.46	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.9		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-7 (11.0')**  
**2402152-14 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**


Specific Conductance (EC)	<b>0.403</b>	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.96</b>			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-8 (8.0')**  
**2402152-15 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0427	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.2	122 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-8 (8.0')**  
**2402152-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0136	40.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-8 (8.0')**  
**2402152-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.31	0.200	mg/kg dry	1	BHD0098	04/03/24	04/08/24	EPA 6020B	
Barium	43.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.34	0.400	"	"	"	"	"	"	
Lead	3.20	0.200	"	"	"	"	"	"	
Nickel	2.38	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.60	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	118	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	46.5	0.0500	"	"	"	"	"	"	
Sodium	6.37	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.126	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.7		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-8 (8.0')**  
**2402152-15 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.0505</b>	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.20</b>		pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-8 (12.0')**  
**2402152-16 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.7</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0386	96.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0533	133 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	17.7	141 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-8 (12.0')**  
**2402152-16 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0175	52.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0231	69.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-8 (12.0')**  
**2402152-16 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.03	0.200	mg/kg dry	1	BHD0098	04/03/24	04/09/24	EPA 6020B	
Barium	123	0.400	"	"	"	"	"	"	
Cadmium	0.247	0.200	"	"	"	"	"	"	
Copper	5.56	0.400	"	"	"	"	"	"	
Lead	7.09	0.200	"	"	"	"	"	"	
Nickel	5.02	0.400	"	"	"	"	"	"	
Silver	0.0470	0.0200	"	"	"	"	"	"	
Zinc	21.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	196	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	15.2	0.0500	"	"	"	"	"	"	
Sodium	79.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.47	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.5		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-8 (12.0')**  
**2402152-16 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Specific Conductance (EC)	0.464	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.59			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-9 (4.0')**  
**2402152-17 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0402	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0427	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0385	96.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	17.3	138 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-9 (4.0')**  
**2402152-17 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0217	65.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

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

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-9 (4.0')**  
**2402152-17 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.56	0.179	mg/kg dry	1	BHD0098	04/03/24	04/09/24	EPA 6020B	
Barium	43.6	0.357	"	"	"	"	"	"	
Cadmium	ND	0.179	"	"	"	"	"	"	
Copper	2.70	0.357	"	"	"	"	"	"	
Lead	3.64	0.179	"	"	"	"	"	"	
Nickel	2.62	0.357	"	"	"	"	"	"	
Silver	ND	0.0179	"	"	"	"	"	"	
Zinc	10.7	0.357	"	"	"	"	"	"	
Selenium	ND	0.232	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	163	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	58.3	0.0500	"	"	"	"	"	"	
Sodium	6.24	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.107	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

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 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-9 (4.0')**  
**2402152-17 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.147</b>	0.0100		mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.64</b>			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-9 (8.0')**  
**2402152-18 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.11</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.033</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.14</b>	0.050	"	10	"	"	02/14/24	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.051</b>	0.0050	"	1	"	"	02/14/24	"	
<b>Naphthalene</b>	<b>0.027</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>11</b>	5.0	"	10	"	"	02/14/24	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0383	95.7 %	50-150	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0408	102 %	50-150	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0440	110 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	16.5	132 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
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Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-9 (8.0')**  
**2402152-18 (Soil)**

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**PAH by EPA Method 8270D SIM**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0414	02/13/24	02/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0123</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0290</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0179	53.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
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Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**SB-9 (8.0')**  
**2402152-18 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.88	0.200	mg/kg dry	1	BHD0098	04/03/24	04/09/24	EPA 6020B	
Barium	108	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.61	0.400	"	"	"	"	"	"	
Lead	9.08	0.200	"	"	"	"	"	"	
Nickel	4.69	0.400	"	"	"	"	"	"	
Silver	0.0532	0.0200	"	"	"	"	"	"	
Zinc	19.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.1	0.0500	mg/L dry	1	BHB0459	02/14/24	02/16/24	EPA 6020B	
Magnesium	23.9	0.0500	"	"	"	"	"	"	
Sodium	37.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.17	0.00100	units	1	BHB0652	02/22/24	02/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.5		%	1	BHB0570	02/16/24	02/19/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
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Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**SB-9 (8.0')**  
**2402152-18 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**


Specific Conductance (EC)	0.201	0.0100	mmhos/cm	1	BHB0501	02/15/24	02/20/24	EPA 120.1
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.03			pH Units	1	BHB0500	02/15/24	02/20/24	EPA 9045D	

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Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**MW-1**  
**2402152-19 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BHB0338	02/09/24	02/10/24	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>76</b>	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>19</b>	1.0		"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>630</b>	1.0		"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.6	102 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	11.9	89.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.2	114 %		21-167		"	"	"	"	

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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

### 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 BHB0338 - EPA 5030 Water MS

##### Blank (BHB0338-BLK1)

Prepared & Analyzed: 02/09/24

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.1		"	13.3		106		23-173			
<i>Surrogate: Toluene-d8</i>	12.3		"	13.3		92.0		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.7		"	13.3		95.2		21-167			

##### LCS (BHB0338-BS1)

Prepared & Analyzed: 02/09/24

Benzene	27.7	1.0	ug/l	33.3		83.2		51-132			
Toluene	26.5	1.0	"	33.3		79.5		51-138			
Ethylbenzene	37.2	1.0	"	33.3		112		58-146			
m,p-Xylene	74.8	2.0	"	66.7		112		57-144			
o-Xylene	36.3	1.0	"	33.3		109		53-146			
Naphthalene	37.1	1.0	"	33.3		111		70-130			
1,2,4-Trimethylbenzene	36.8	1.0	"	33.3		110		70-130			
1,3,5-Trimethylbenzene	36.7	1.0	"	33.3		110		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.6		"	13.3		102		23-173			
<i>Surrogate: Toluene-d8</i>	12.1		"	13.3		90.5		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.5		"	13.3		93.9		21-167			

##### Matrix Spike (BHB0338-MS1)

Source: 2402134-01

Prepared & Analyzed: 02/09/24

Benzene	28.4	1.0	ug/l	33.3	ND	85.3		34-141			
Toluene	27.8	1.0	"	33.3	ND	83.4		27-151			
Ethylbenzene	36.6	1.0	"	33.3	ND	110		29-160			
m,p-Xylene	72.5	2.0	"	66.7	ND	109		20-166			
o-Xylene	36.0	1.0	"	33.3	ND	108		33-159			
Naphthalene	41.7	1.0	"	33.3	ND	125		70-130			
1,2,4-Trimethylbenzene	35.3	1.0	"	33.3	ND	106		70-130			
1,3,5-Trimethylbenzene	34.8	1.0	"	33.3	ND	104		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.9		"	13.3		104		23-173			
<i>Surrogate: Toluene-d8</i>	12.4		"	13.3		93.3		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.3		"	13.3		92.4		21-167			

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Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**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 BHB0338 - EPA 5030 Water MS**

<b>Matrix Spike Dup (BHB0338-MSD1)</b>	<b>Source: 2402134-01</b>			<b>Prepared &amp; Analyzed: 02/09/24</b>						
Benzene	28.9	1.0	ug/l	33.3	ND	86.7	34-141	1.61	30	
Toluene	27.4	1.0	"	33.3	ND	82.3	27-151	1.30	30	
Ethylbenzene	38.6	1.0	"	33.3	ND	116	29-160	5.42	30	
m,p-Xylene	76.0	2.0	"	66.7	ND	114	20-166	4.67	30	
o-Xylene	38.0	1.0	"	33.3	ND	114	33-159	5.57	30	
Naphthalene	41.9	1.0	"	33.3	ND	126	70-130	0.359	30	
1,2,4-Trimethylbenzene	37.4	1.0	"	33.3	ND	112	70-130	5.94	30	
1,3,5-Trimethylbenzene	36.8	1.0	"	33.3	ND	110	70-130	5.51	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.3</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>		<i>93.5</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.7</i>	<i>21-167</i>			

**Batch BHB0420 - EPA 5030 Soil MS**

<b>Blank (BHB0420-BLK1)</b>	<b>Prepared &amp; Analyzed: 02/13/24</b>									
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>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</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>			

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Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**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 BHB0420 - EPA 5030 Soil MS**

**LCS (BHB0420-BS1)**

Prepared & Analyzed: 02/13/24

Benzene	0.105	0.0020	mg/kg	0.100		105	70-130			
Toluene	0.0989	0.0050	"	0.100		98.9	70-130			
Ethylbenzene	0.0965	0.0050	"	0.100		96.5	70-130			
m,p-Xylene	0.183	0.010	"	0.200		91.5	70-130			
o-Xylene	0.0909	0.0050	"	0.100		90.9	70-130			
1,2,4-Trimethylbenzene	0.0929	0.0050	"	0.100		92.9	70-130			
1,3,5-Trimethylbenzene	0.0909	0.0050	"	0.100		90.9	70-130			
Naphthalene	0.118	0.0038	"	0.100		118	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0380</i>		<i>"</i>	<i>0.0400</i>		<i>95.1</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0416</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			

**Matrix Spike (BHB0420-MS1)**

Source: 2402152-01

Prepared & Analyzed: 02/13/24

Benzene	0.0964	0.0020	mg/kg	0.100	ND	96.4	70-130			
Toluene	0.0871	0.0050	"	0.100	ND	87.1	70-130			
Ethylbenzene	0.0787	0.0050	"	0.100	ND	78.7	70-130			
m,p-Xylene	0.154	0.010	"	0.200	ND	77.2	70-130			
o-Xylene	0.0810	0.0050	"	0.100	ND	81.0	70-130			
1,2,4-Trimethylbenzene	0.0677	0.0050	"	0.100	ND	67.7	70-130			QM-07
1,3,5-Trimethylbenzene	0.0755	0.0050	"	0.100	ND	75.5	70-130			
Naphthalene	0.0655	0.0038	"	0.100	ND	65.5	70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0373</i>		<i>"</i>	<i>0.0400</i>		<i>93.3</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			

**Matrix Spike Dup (BHB0420-MSD1)**

Source: 2402152-01

Prepared & Analyzed: 02/13/24

Benzene	0.0982	0.0020	mg/kg	0.100	ND	98.2	70-130	1.82	30	
Toluene	0.0879	0.0050	"	0.100	ND	87.9	70-130	0.926	30	
Ethylbenzene	0.0756	0.0050	"	0.100	ND	75.6	70-130	3.97	30	
m,p-Xylene	0.151	0.010	"	0.200	ND	75.7	70-130	1.98	30	
o-Xylene	0.0806	0.0050	"	0.100	ND	80.6	70-130	0.446	30	
1,2,4-Trimethylbenzene	0.0638	0.0050	"	0.100	ND	63.8	70-130	5.98	30	QM-07
1,3,5-Trimethylbenzene	0.0753	0.0050	"	0.100	ND	75.3	70-130	0.199	30	
Naphthalene	0.0612	0.0038	"	0.100	ND	61.2	70-130	6.82	30	QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.3</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0423</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BHB0421 - EPA 3550A**

**Blank (BHB0421-BLK1)**

Prepared & Analyzed: 02/13/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	9.81		"	12.5		78.5		30-150		

**LCS (BHB0421-BS1)**

Prepared & Analyzed: 02/13/24

C10-C28 (DRO)	396	50	mg/kg	500		79.2		70-130		
Surrogate: <i>o</i> -Terphenyl	16.5		"	12.5		132		30-150		

**Matrix Spike (BHB0421-MS1)**

Source: 2402152-01

Prepared & Analyzed: 02/13/24

C10-C28 (DRO)	393	50	mg/kg	500	15.2	75.5		70-130		
Surrogate: <i>o</i> -Terphenyl	17.3		"	12.5		138		30-150		

**Matrix Spike Dup (BHB0421-MSD1)**

Source: 2402152-01

Prepared & Analyzed: 02/13/24

C10-C28 (DRO)	414	50	mg/kg	500	15.2	79.8		70-130	5.25	20
Surrogate: <i>o</i> -Terphenyl	17.2		"	12.5		137		30-150		

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PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**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 BHB0414 - EPA 5030 Soil MS**

**Blank (BHB0414-BLK1)**

Prepared: 02/13/24 Analyzed: 02/15/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0166</i>		"	<i>0.0333</i>		<i>49.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0302</i>		"	<i>0.0333</i>		<i>90.5</i>	<i>40-150</i>			

**LCS (BHB0414-BS1)**

Prepared: 02/13/24 Analyzed: 02/15/24

Acenaphthene	0.0342	0.00500	mg/kg	0.0333	102	31-137
Anthracene	0.0360	0.00500	"	0.0333	108	30-120
Benzo (a) anthracene	0.0300	0.00500	"	0.0333	90.0	30-120
Benzo (a) pyrene	0.0302	0.00500	"	0.0333	90.5	30-120
Benzo (b) fluoranthene	0.0309	0.00500	"	0.0333	92.7	30-120
Benzo (k) fluoranthene	0.0384	0.00500	"	0.0333	115	30-120
Chrysene	0.0397	0.00500	"	0.0333	119	30-120
Dibenz (a,h) anthracene	0.0331	0.00500	"	0.0333	99.2	30-120
Fluoranthene	0.0310	0.00500	"	0.0333	93.0	30-120
Fluorene	0.0367	0.00500	"	0.0333	110	30-120
Indeno (1,2,3-cd) pyrene	0.0312	0.00500	"	0.0333	93.5	30-120
Pyrene	0.0386	0.00500	"	0.0333	116	35-142
1-Methylnaphthalene	0.0291	0.00500	"	0.0333	87.2	35-142
2-Methylnaphthalene	0.0358	0.00500	"	0.0333	107	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0294</i>		"	<i>0.0333</i>	<i>88.3</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0313</i>		"	<i>0.0333</i>	<i>93.9</i>	<i>40-150</i>

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Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**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 BHB0414 - EPA 5030 Soil MS**

**Matrix Spike (BHB0414-MS1)**

Source: 2402152-01

Prepared: 02/13/24 Analyzed: 02/15/24

Acenaphthene	0.0222	0.00500	mg/kg	0.0333	ND	66.5	31-137			
Anthracene	0.0195	0.00500	"	0.0333	ND	58.6	30-120			
Benzo (a) anthracene	0.0190	0.00500	"	0.0333	ND	57.0	30-120			
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120			
Benzo (b) fluoranthene	0.0180	0.00500	"	0.0333	ND	53.9	30-120			
Benzo (k) fluoranthene	0.0200	0.00500	"	0.0333	ND	59.9	30-120			
Chrysene	0.0222	0.00500	"	0.0333	ND	66.7	30-120			
Dibenz (a,h) anthracene	0.0209	0.00500	"	0.0333	ND	62.8	30-120			
Fluoranthene	0.0199	0.00500	"	0.0333	ND	59.8	30-120			
Fluorene	0.0230	0.00500	"	0.0333	ND	69.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0213	0.00500	"	0.0333	ND	64.0	30-120			
Pyrene	0.0228	0.00500	"	0.0333	ND	68.5	35-142			
1-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.5	15-130			
2-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.8	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0167		"	0.0333		50.1	40-150			
Surrogate: Fluoranthene-d10	0.0206		"	0.0333		61.8	40-150			

**Matrix Spike Dup (BHB0414-MSD1)**

Source: 2402152-01

Prepared: 02/13/24 Analyzed: 02/15/24

Acenaphthene	0.0209	0.00500	mg/kg	0.0333	ND	62.8	31-137	5.78	30
Anthracene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	7.03	30
Benzo (a) anthracene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	5.18	30
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.1	30-120	1.57	30
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	30-120	1.49	30
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	3.76	30
Chrysene	0.0214	0.00500	"	0.0333	ND	64.3	30-120	3.69	30
Dibenz (a,h) anthracene	0.0249	0.00500	"	0.0333	ND	74.7	30-120	17.2	30
Fluoranthene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	2.18	30
Fluorene	0.0235	0.00500	"	0.0333	ND	70.6	30-120	2.24	30
Indeno (1,2,3-cd) pyrene	0.0222	0.00500	"	0.0333	ND	66.7	30-120	4.14	30
Pyrene	0.0232	0.00500	"	0.0333	ND	69.7	35-142	1.73	30
1-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	42.0	15-130	22.2	50
2-Methylnaphthalene	0.0202	0.00500	"	0.0333	ND	60.7	15-130	16.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0138		"	0.0333		41.5	40-150		
Surrogate: Fluoranthene-d10	0.0209		"	0.0333		62.7	40-150		

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**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 BHB0684 - EPA 3050B**

<b>Blank (BHB0684-BLK1)</b>											
						Prepared: 02/21/24 Analyzed: 02/23/24					
Boron	ND	2.00	mg/L								
<b>LCS (BHB0684-BS1)</b>											
						Prepared: 02/21/24 Analyzed: 02/23/24					
Boron	4.53	2.00	mg/L	5.00	90.6	80-120					
<b>Duplicate (BHB0684-DUP1)</b>											
						Source: 2402152-02 Prepared: 02/21/24 Analyzed: 02/23/24					
Boron	0.252	2.00	mg/L		0.297				16.2	20	
<b>Matrix Spike (BHB0684-MS1)</b>											
						Source: 2402152-02 Prepared: 02/21/24 Analyzed: 02/23/24					
Boron	4.65	2.00	mg/L	5.00	0.297	87.0	75-125				
<b>Matrix Spike Dup (BHB0684-MSD1)</b>											
						Source: 2402152-02 Prepared: 02/21/24 Analyzed: 02/23/24					
Boron	4.83	2.00	mg/L	5.00	0.297	90.6	75-125	3.77		25	

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PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

**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 BHD0098 - EPA 3050B**

**Blank (BHD0098-BLK1)**

Prepared: 04/03/24 Analyzed: 04/08/24

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

**LCS (BHD0098-BS1)**

Prepared: 04/03/24 Analyzed: 04/08/24

Arsenic	41.8	0.200	mg/kg wet	40.0	104	80-120
Barium	41.9	0.400	"	40.0	105	80-120
Cadmium	1.91	0.200	"	2.00	95.6	80-120
Copper	39.0	0.400	"	40.0	97.6	80-120
Lead	19.5	0.200	"	20.0	97.4	80-120
Nickel	38.8	0.400	"	40.0	97.0	80-120
Silver	1.97	0.0200	"	2.00	98.3	80-120
Zinc	38.1	0.400	"	40.0	95.3	80-120
Selenium	4.42	0.260	"	4.00	110	80-120

**Duplicate (BHD0098-DUP1)**

Source: 2402152-01

Prepared: 04/03/24 Analyzed: 04/08/24

Arsenic	1.60	0.200	mg/kg dry	1.36	16.3	20
Barium	45.2	0.400	"	43.1	4.71	20
Cadmium	0.102	0.200	"	0.0920	10.5	20
Copper	2.73	0.400	"	2.44	11.4	20
Lead	5.04	0.200	"	3.57	34.2	20
Nickel	2.94	0.400	"	2.47	17.3	20
Silver	0.0166	0.0200	"	0.0144	14.1	20
Zinc	11.5	0.400	"	10.1	12.8	20
Selenium	ND	0.260	"	ND		20

QR-01

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 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**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 BHD0098 - EPA 3050B**

**Matrix Spike (BHD0098-MS1)**

Source: 2402152-01

Prepared: 04/03/24 Analyzed: 04/08/24

Arsenic	43.1	0.181	mg/kg dry	41.2	1.36	101	75-125				
Barium	83.3	0.362	"	41.2	43.1	97.4	75-125				
Cadmium	2.06	0.181	"	2.06	0.0920	95.6	75-125				
Copper	31.8	0.362	"	41.2	2.44	71.1	75-125				QM-07
Lead	23.4	0.181	"	20.6	3.57	96.3	75-125				
Nickel	31.8	0.362	"	41.2	2.47	71.2	75-125				QM-07
Silver	1.96	0.0181	"	2.06	0.0144	94.5	75-125				
Zinc	39.6	0.362	"	41.2	10.1	71.4	75-125				QM-07
Selenium	3.90	0.236	"	4.12	ND	94.5	75-125				

**Matrix Spike Dup (BHD0098-MSD1)**

Source: 2402152-01

Prepared: 04/03/24 Analyzed: 04/08/24

Arsenic	43.7	0.181	mg/kg dry	41.2	1.36	103	75-125	1.33	25		
Barium	84.0	0.362	"	41.2	43.1	99.3	75-125	0.931	25		
Cadmium	2.05	0.181	"	2.06	0.0920	95.1	75-125	0.421	25		
Copper	31.6	0.362	"	41.2	2.44	70.7	75-125	0.503	25		QM-07
Lead	23.5	0.181	"	20.6	3.57	96.8	75-125	0.452	25		
Nickel	31.8	0.362	"	41.2	2.47	71.2	75-125	0.0272	25		QM-07
Silver	1.97	0.0181	"	2.06	0.0144	94.9	75-125	0.398	25		
Zinc	39.3	0.362	"	41.2	10.1	70.7	75-125	0.767	25		QM-07
Selenium	4.03	0.236	"	4.12	ND	97.7	75-125	3.36	25		

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 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**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 BHB0459 - General Preparation**

**Blank (BHB0459-BLK1)**

Prepared: 02/14/24 Analyzed: 02/16/24

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

**LCS (BHB0459-BS1)**

Prepared: 02/14/24 Analyzed: 02/16/24

Calcium	5.41	0.0500	mg/L wet	5.00	108	70-130				
Magnesium	5.21	0.0500	"	5.00	104	70-130				
Sodium	5.24	0.0500	"	5.00	105	70-130				

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 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**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 BHB0570 - General Preparation**

Duplicate (BHB0570-DUP1)	Source: 2402152-01	Prepared: 02/16/24	Analyzed: 02/19/24		
% Solids	88.9	%	87.8	1.18	20

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 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW  
 Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**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 BHB0501 - General Preparation**

**Blank (BHB0501-BLK1)**

Prepared: 02/15/24 Analyzed: 02/20/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHB0501-BS1)**

Prepared: 02/15/24 Analyzed: 02/20/24

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

**Duplicate (BHB0501-DUP1)**

Source: 2402152-01

Prepared: 02/15/24 Analyzed: 02/20/24

Specific Conductance (EC) 0.134 0.0100 mmhos/cm 0.139 3.89 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: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/09/24 11:36

**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 BHB0500 - General Preparation**

**LCS (BHB0500-BS1)**

Prepared: 02/15/24 Analyzed: 02/20/24

pH	9.07	pH Units	9.18	98.8	95-105
----	------	----------	------	------	--------

**Duplicate (BHB0500-DUP1)**

Source: 2402152-01

Prepared: 02/15/24 Analyzed: 02/20/24

pH	7.97	pH Units	8.30	4.06	20
----	------	----------	------	------	----

Summit Scientific

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**Division of Environmental Testing**

2115 N Scranton St Suite 3040A  
Aurora, CO 80045  
800-440-5184

March 17, 2024

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310  
reports@s2scientific.com

**Project Manager :** Mikayla Axtell  
**Project Name :** 2402152  
**Project Number :** N/A

Attached are the analytical results for 2402152 N/A received by Elevation Diagnostics, Division of Environmental Testing on February 22, 2024. This is associated with Elevation's number AA05370 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing

Kristen Reichel  
Laboratory Director  
CSO,CCO

Client: Summit Scientific		Project Manager: Mikayla Axtell		Company:	
Address:		E-Mail: reports@s2scientific.com		Project Name/Location:	
City/State/Zip:				AFE#:	
Phone:		Project Name: 2402152		PO/Billing Codes:	
Sampler Name:		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative					Matrix					Analysis Requested			Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 Metals	Boron	AA0376-1	AA0377-1	AA0378-1		
1	SB-1 (6.0)	2/8/2024		1						X					X	X			
2	SB-1 (8.0)	2/8/2024		1						X					X				
3	MW-1 (6.0)	2/8/2024		1						X					X				
4	MW-1 (8.0)	2/8/2024		1						X					X				
5	SB-3 (5.0)	2/8/2024		1						X					X				
6	SB-3 (7.0)	2/8/2024		1						X					X				
7	SB-4 (6.0)	2/8/2024		1						X					X				
8	SB-4 (10.0)	2/8/2024		1						X					X				
9	SB-5 (6.0)	2/8/2024		1						X					X				
10	SB-5 (8.0)	2/8/2024		1						X					X				
11	SB-6 (6.0)	2/8/2024		1						X					X				
12	SB-6 (12.0)	2/8/2024		1						X					X				
13	SB-7 (7.0)	2/8/2024		1						X					X				
14	SB-7 (11.0)	2/8/2024		1						X					X				
15	SB-8 (8.0)	2/8/2024		1						X					X				

Relinquished by:	Date/Time: 2/22/24	Received by:	Date/Time:	TAT Business Days	Field DO	Notes: Temp: 23.8 C Corrected Temp: 25.8 C Thermometer: EDXEQ238 Sample Intact pH Check: No 2.22.2024
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 8.8	Corrected Temperature: 8	IR gun #:		Standard	X Field Turb.	

*Dadded per client request on 2.22.2024* 2024-02-22-014-1

		<b>Send Data To:</b>	<b>Send Invoice To:</b>
Client: Summit Scientific		Project Manager: Mikayla Axtell	Company:
Address:		E-Mail: reports@s2scientific.com	Project Name/Location:
City/State/Zip:			AFE#:
Phone:		Project Name: 2402152	PO/Billing Codes:
Sampler Name:		Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested			Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 Metals			
1	SB-8 (12.0)	2/8/2024		1						X			X			
2	SB-9 (4.0)	2/8/2024		1						X			X			
3	SB-9 (8.0)	2/8/2024		1						X			X			
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

Relinquished by:	Date/Time: 2/21/24	Received by:	Date/Time:	TAT Business Days	Field DO	Notes: Temp: 23.8 C Corrected Temp: 25.8 C Thermometer: EDXEQ238 Sample Intact pH Check: No 2.22.2024
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 8.8	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:	Standard	X	Field Turb.

2024-02-22-014-2



**Division of Environmental Testing**

2115 N Scranton St Suite 3040A  
 Aurora, CO 80045  
 800-440-5184

**Report Date :** 3/17/2024

**Report Time :** 18:18

**FINAL RESULTS REPORT**

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

**Project Manager :** Mikayla Axtell  
**Project Name :** 2402152  
**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA05370-1	SB-1 (6.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/01/2024 14:54		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199
AA05371-1	SB-1 (8.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/01/2024 14:54		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199
AA05372-1	MW-1 (6.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/01/2024 14:54		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199
AA05373-1	MW-1 (8.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/01/2024 14:54		0.084	mg/kg	0.002	EPA 3060A & EPA 7199
AA05374-1	SB-3 (5.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/01/2024 14:54		0.088	mg/kg	0.002	EPA 3060A & EPA 7199
AA05375-1	SB-3 (7.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/01/2024 14:54		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199
AA05376-1	SB-4 (6.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/01/2024 14:54		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199



**Division of Environmental Testing**

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 Aurora, CO 80045  
 800-440-5184

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**Report Time :** 18:18

**FINAL RESULTS REPORT**

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

**Project Manager :** Mikayla Axtell  
**Project Name :** 2402152  
**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA05377-1	SB-4 (10.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/01/2024 14:54		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199
AA05378-1	SB-5 (6.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/01/2024 14:54		0.120	mg/kg	0.002	EPA 3060A & EPA 7199
AA05379-1	SB-5 (8.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/01/2024 14:54		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199
AA05380-1	SB-6 (6.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/07/2024 14:39		0.204	mg/kg	0.080	EPA 3060A & EPA 7199
AA05381-1	SB-6 (12.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/07/2024 14:39		0.145	mg/kg	0.080	EPA 3060A & EPA 7199
AA05382-1	SB-7 (7.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/04/2024 08:37		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199
AA05383-1	SB-7 (11.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/08/2024 14:08		0.089	mg/kg	0.080	EPA 3060A & EPA 7199



**Division of Environmental Testing**

2115 N Scranton St Suite 3040A  
 Aurora, CO 80045  
 800-440-5184

**Report Date :** 3/17/2024

**Report Time :** 18:18

**FINAL RESULTS REPORT**

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

**Project Manager :** Mikayla Axtell  
**Project Name :** 2402152  
**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA05384-1	SB-8 (8.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/04/2024 08:37		0.142	mg/kg	0.002	EPA 3060A & EPA 7199
AA05385-1	SB-8 (12.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/04/2024 08:37		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199
AA05386-1	SB-9 (4.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/04/2024 08:37		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199
AA05387-1	SB-9 (8.0) Collected : 02/08/2024 11:12	Chromium VI, Soil 03/04/2024 08:37		<0.080	mg/kg	0.002	EPA 3060A & EPA 7199



**Division of Environmental Testing**

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

**Report Date :** 3/17/2024

**Report Time :** 18:18

**FINAL RESULTS REPORT**

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

**Project Manager :** Mikayla Axtell

**Project Name :** 2402152

**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
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**QC Report**

**BORON-2202**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP AA06210	0.059	0.05	ppm		0.059			<%MDL%	-15 - 15
MB AA06323	0.007	0.05	ppm						
LCS AA06324	0.878	0.05	ppm	1.000		87.800	80 - 120		
LCS AA06325	9.645	0.05	ppm	9.000		107.17	80 - 120		

**CHROM\_VI\_SOIL-2109**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP AA05067	<0.080	0.001	mg/kg		<0.080				
DUP AA05540	<0.080	0.001	mg/kg		<0.080				
MB AA05740	0.538		ppb						
LCS AA05742	36.849		ppb	40		92.122			
LCS AA05743	38.379		ppb	40		95.948			

**CHROM\_VI\_SOIL-2124**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP AA05448	0.116	0.080	mg/kg		0.115			0.86580	
DUP AA05459	0.099	0.080	mg/kg		0.091			8.4211	
MB AA05959	0.001		mg/kg						
LCS AA05961	0.047		mg/kg	0.040		117.50			
LCS AA05962	0.043		mg/kg	0.040		107.50			

**CHROM\_VI\_SOIL-2125**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP AA05392	0.084	0.001	mg/kg		<0.080				
DUP AA05651	0.086	0.001	mg/kg		0.120			33.010	
MB AA05963	Not Detected		ppb						
LCS AA05965	41.291		ppb	40		103.23			
LCS AA05966	39.639		ppb	40		99.098			



**Division of Environmental Testing**

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

**Report Date :** 3/17/2024

**Report Time :** 18:18

**FINAL RESULTS REPORT**

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

**Project Manager :** Mikayla Axtell

**Project Name :** 2402152

**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
<b>CHROM_VI_SOIL-2233</b>							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	% REC Limits	RPD Limit
DUP	AA05383	0.087	0.080	mg/kg	0.089		2.2727
MB	AA06413	0.001		mg/kg			
LCS	AA06415	0.043		mg/kg	0.040	107.50	
LCS	AA06416	0.042		mg/kg	0.040	105.00	



**Division of Environmental Testing**

2115 N Scranton St Suite 3040A  
 Aurora, CO 80045  
 800-440-5184

**Report Date :** 3/17/2024

**Report Time :** 18:18

**FINAL RESULTS REPORT**

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

**Project Manager :** Mikayla Axtell  
**Project Name :** 2402152  
**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
-----------	-------------	--------------------------------	----------	--------	-------	--------------------	---------------------

Qualifier	Explanation
H1	Sample received outside of regulatory holding time.
H2	Sample analyzed outside of regulatory holding time due to a laboratory error.
P1	Sample received outside temperature requirements, 0-6°C.
P2	Sample received unpreserved.
P3	Broken or leaking sample container.
P4	Sample improperly collected
P5	Sample improperly preserved
B	The same analyte is found in the associated blank
B1	Blank failed high, indicating possible high bias in sample results.
B2	Blank failed low, indicating possible low bias in sample results.
MS	Matrix Spike / Matrix Spike Duplicate recovery and/or RPD limit exceeded, indicating potential matrix interference.
QC	Associated batch quality control was outside the acceptable range
D1	Duplicate RPD limit exceeded due to low sample concentration.
D2	Duplicate RPD limit exceeded due to matrix interference.
S	Surrogate recovery failed, indicating potential matrix interference.
RL1	Reporting limits raised due to matrix interference.
RL2	Reporting limits raised due to limited sample.
U	Sample result less than method detection limit.
J	Sample result less than reporting limit but higher than method detection limit.
EST	The concentration indicated has been estimated due to high analyte content
E	Electronic loss or corruption of data.
I	Subcontracted sample



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/09/24 11:36

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 10, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Cornelius 63N65W 115WNW (Background)

Work Order #2402151

Enclosed are the results of analyses for samples received by Summit Scientific on 02/08/24 16:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black 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: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@6.0'	2402151-01	Soil	02/08/24 00:00	02/08/24 16:32
BKG01@8.0'	2402151-02	Soil	02/08/24 00:00	02/08/24 16:32
BKG02@5.0'	2402151-03	Soil	02/08/24 00:00	02/08/24 16:32
BKG02@6.0'	2402151-04	Soil	02/08/24 00:00	02/08/24 16:32
BKG03@5.0'	2402151-05	Soil	02/08/24 00:00	02/08/24 16:32
BKG03@6.0'	2402151-06	Soil	02/08/24 00:00	02/08/24 16:32
BKG04@6.0'	2402151-07	Soil	02/08/24 00:00	02/08/24 16:32
BKG04@7.0'	2402151-08	Soil	02/08/24 00:00	02/08/24 16:32
BKG05@6.0'	2402151-09	Soil	02/08/24 00:00	02/08/24 16:32
BKG05@8.0'	2402151-10	Soil	02/08/24 00:00	02/08/24 16:32

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
2402151	

Send Data To:		Send Invoice To:	
Client: <u>Fremont Env</u>	Project Manager: <u>Paul Henchen</u>	Company:	
Address:	E-Mail: <u>Paul@Fremontenv.com</u>	Project Name/Location:	
City/State/Zip:	<u>Jeff@Fremontenv.com Ethanh@Fremontenv.com</u>	AFE#:	
Phone:	Project Name: <u>Cornelius 63NGSW 11SWNW (Bakgrnd)</u>	PO/Billing Codes: <u>UWRWE-A2105-ARN</u>	
Sampler Name: <u>JG</u>	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC, PH, SAR, P <sub>total</sub>	Metals (915)		
1	BK601@6.0'	2/8/24		1			X			X			X	X		
2	BK601@8.0'	↓		↓												
3	BK602@5.0'	↓		↓												
4	BK602@6.0'	↓		↓												
5	BK603@5.0'	↓		↓												
6	BK603@6.0'	↓		↓												
7	BK604@6.0'	↓		↓												
8	BK604@7.0'	↓		↓												
9	BK605@6.0'	↓		↓												
10	BK605@8.0'	↓		↓												
11																
12																
13																
14																
15																

Relinquished by: <u>J</u> Date/Time: <u>2/8/24</u>	Received by: <u>Ante...</u> Date/Time: <u>2/8/24 16:32</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Received by:	Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
Relinquished by:	Received by:	2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>14.3</u>	Corrected Temperature: _____	IR gun #: <u>2</u>	Field Turb. <input checked="" type="checkbox"/>	HNO3 lot #: _____

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2402151

Client: Fremont

Client Project ID: Cornelius 63N65W 115WNW (Background)

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

Five empty checkboxes for shipping methods.

Airbill #:

Matrix (Check all that apply)

Air

Air checkbox

Soil/Solid

Soil/Solid checkbox

Water

Water checkbox

Other

Other checkbox

Temp (°C)

14.3

Thermometer #

2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS

Custodian Printed Name

2/8/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG01@6.0'**  
**2402151-01 (Soil)**

Summit Scientific

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	2.97	2.00		mg/L	1	BHB0720	02/22/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.31	0.200		mg/kg dry	1	BHD0128	03/09/24	04/09/24	EPA 6020B	
Barium	121	0.400		"	"	"	"	"	"	
Cadmium	0.224	0.200		"	"	"	"	"	"	
Copper	5.62	0.400		"	"	"	"	"	"	
Lead	8.12	0.200		"	"	"	"	"	"	
Nickel	5.47	0.400		"	"	"	"	"	"	
Silver	0.0844	0.0200		"	"	"	"	"	"	
Zinc	20.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	18.4	0.0500		mg/L dry	1	BHB0413	02/13/24	02/14/24	EPA 6020B	
Magnesium	14.3	0.0500		"	"	"	"	"	"	
Sodium	232	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sodium Adsorption Ratio	9.86	0.00100		units	1	BHB0556	02/16/24	02/16/24	Calculation	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**BKG01@6.0'**  
**2402151-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.7		%	1	BHB0517	02/15/24	02/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.12	0.0100	mmhos/cm	1	BHB0456	02/14/24	02/14/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BHB0455	02/14/24	02/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG01@8.0'**  
**2402151-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0720	02/22/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.39	0.200	mg/kg dry	1	BHD0128	03/09/24	04/09/24	EPA 6020B	
Barium	44.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.17	0.400	"	"	"	"	"	"	
Lead	2.93	0.200	"	"	"	"	"	"	
Nickel	2.33	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.67	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	100	0.0500	mg/L dry	1	BHB0413	02/13/24	02/14/24	EPA 6020B	
Magnesium	25.8	0.0500	"	"	"	"	"	"	
Sodium	212	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.89	0.00100	units	1	BHB0556	02/16/24	02/16/24	Calculation	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**BKG01@8.0'**  
**2402151-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.6		%	1	BHB0517	02/15/24	02/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.19	0.0100	mmhos/cm	1	BHB0456	02/14/24	02/14/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHB0455	02/14/24	02/14/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG02@5.0'**  
**2402151-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0720	02/22/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.894</b>	0.200	mg/kg dry	1	BHD0128	03/09/24	04/09/24	EPA 6020B	
Barium	<b>27.0</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>2.82</b>	0.400	"	"	"	"	"	"	
Lead	<b>4.92</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.68</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>11.9</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>72.6</b>	0.0500	mg/L dry	1	BHB0413	02/13/24	02/14/24	EPA 6020B	
Magnesium	<b>28.8</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>140</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	<b>3.52</b>	0.00100	units	1	BHB0556	02/16/24	02/16/24	Calculation	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG02@5.0'**  
**2402151-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.1		%	1	BHB0517	02/15/24	02/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.40	0.0100	mmhos/cm	1	BHB0456	02/14/24	02/14/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.23		pH Units	1	BHB0455	02/14/24	02/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG02@6.0'**  
**2402151-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0720	02/22/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.59	0.200	mg/kg dry	1	BHD0128	03/09/24	04/09/24	EPA 6020B	
Barium	83.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.95	0.400	"	"	"	"	"	"	
Lead	4.47	0.200	"	"	"	"	"	"	
Nickel	3.52	0.400	"	"	"	"	"	"	
Silver	0.0213	0.0200	"	"	"	"	"	"	
Zinc	12.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	46.1	0.0500	mg/L dry	1	BHB0413	02/13/24	02/14/24	EPA 6020B	
Magnesium	27.6	0.0500	"	"	"	"	"	"	
Sodium	306	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	8.80	0.00100	units	1	BHB0556	02/16/24	02/16/24	Calculation	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**BKG02@6.0'**  
**2402151-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.7		%	1	BHB0517	02/15/24	02/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.71	0.0100	mmhos/cm	1	BHB0456	02/14/24	02/14/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHB0455	02/14/24	02/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG03@5.0'**  
**2402151-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0720	02/22/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.10	0.200	mg/kg dry	1	BHD0128	03/09/24	04/09/24	EPA 6020B	
Barium	25.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.25	0.400	"	"	"	"	"	"	
Lead	3.48	0.200	"	"	"	"	"	"	
Nickel	1.78	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.33	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	73.7	0.0500	mg/L dry	1	BHB0413	02/13/24	02/14/24	EPA 6020B	
Magnesium	44.3	0.0500	"	"	"	"	"	"	
Sodium	65.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.49	0.00100	units	1	BHB0556	02/16/24	02/16/24	Calculation	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**BKG03@5.0'**  
**2402151-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BHB0517	02/15/24	02/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.07	0.0100	mmhos/cm	1	BHB0456	02/14/24	02/14/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.49		pH Units	1	BHB0455	02/14/24	02/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG03@6.0'**  
**2402151-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0720	02/22/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.72	0.200	mg/kg dry	1	BHD0128	03/09/24	04/09/24	EPA 6020B	
Barium	53.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.58	0.400	"	"	"	"	"	"	
Lead	3.76	0.200	"	"	"	"	"	"	
Nickel	3.06	0.400	"	"	"	"	"	"	
Silver	0.0203	0.0200	"	"	"	"	"	"	
Zinc	10.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	29.8	0.0500	mg/L dry	1	BHB0413	02/13/24	02/14/24	EPA 6020B	
Magnesium	16.3	0.0500	"	"	"	"	"	"	
Sodium	118	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.32	0.00100	units	1	BHB0556	02/16/24	02/16/24	Calculation	

Summit Scientific

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 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**BKG03@6.0'**  
**2402151-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.1		%	1	BHB0517	02/15/24	02/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.748	0.0100	mmhos/cm	1	BHB0456	02/14/24	02/14/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BHB0455	02/14/24	02/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG04@6.0'**  
**2402151-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHB0720	02/22/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>1.10</b>	0.200		mg/kg dry	1	BHD0128	03/09/24	04/09/24	EPA 6020B	
Barium	<b>28.2</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>2.38</b>	0.400		"	"	"	"	"	"	
Lead	<b>4.00</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.11</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>9.73</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>97.8</b>	0.0500		mg/L dry	1	BHB0413	02/13/24	02/14/24	EPA 6020B	
Magnesium	<b>30.7</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>192</b>	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sodium Adsorption Ratio	<b>4.34</b>	0.00100		units	1	BHB0556	02/16/24	02/16/24	Calculation	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**BKG04@6.0'**  
**2402151-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHB0517	02/15/24	02/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.16	0.0100	mmhos/cm	1	BHB0456	02/14/24	02/14/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BHB0455	02/14/24	02/14/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG04@7.0'**  
**2402151-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0720	02/22/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.36	0.200	mg/kg dry	1	BHD0128	03/09/24	04/09/24	EPA 6020B	
Barium	53.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.61	0.400	"	"	"	"	"	"	
Lead	3.59	0.200	"	"	"	"	"	"	
Nickel	3.11	0.400	"	"	"	"	"	"	
Silver	0.0283	0.0200	"	"	"	"	"	"	
Zinc	9.87	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	45.1	0.0500	mg/L dry	1	BHB0413	02/13/24	02/14/24	EPA 6020B	
Magnesium	28.8	0.0500	"	"	"	"	"	"	
Sodium	230	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	6.58	0.00100	units	1	BHB0556	02/16/24	02/16/24	Calculation	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**BKG04@7.0'**  
**2402151-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BHB0517	02/15/24	02/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.32	0.0100	mmhos/cm	1	BHB0456	02/14/24	02/14/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BHB0455	02/14/24	02/14/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG05@6.0'**  
**2402151-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0720	02/22/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>1.05</b>	0.200	mg/kg dry	1	BHD0128	03/09/24	04/09/24	EPA 6020B	
Barium	<b>13.2</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>2.37</b>	0.400	"	"	"	"	"	"	
Lead	<b>3.91</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.27</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>9.58</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>58.3</b>	0.0500	mg/L dry	1	BHB0413	02/13/24	02/14/24	EPA 6020B	
Magnesium	<b>19.3</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>36.5</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	<b>1.06</b>	0.00100	units	1	BHB0556	02/16/24	02/16/24	Calculation	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG05@6.0'**  
**2402151-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BHB0517	02/15/24	02/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.634	0.0100	mmhos/cm	1	BHB0456	02/14/24	02/14/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.27		pH Units	1	BHB0455	02/14/24	02/14/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**BKG05@8.0'**  
**2402151-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0720	02/22/24	02/23/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.981</b>	0.200	mg/kg dry	1	BHD0128	03/09/24	04/09/24	EPA 6020B	
<b>Barium</b>	<b>20.7</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.80</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>2.55</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.03</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>8.10</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>28.8</b>	0.0500	mg/L dry	1	BHB0413	02/13/24	02/14/24	EPA 6020B	
<b>Magnesium</b>	<b>20.5</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>136</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>4.73</b>	0.00100	units	1	BHB0556	02/16/24	02/16/24	Calculation	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**BKG05@8.0'**  
**2402151-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BHB0517	02/15/24	02/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.836	0.0100	mmhos/cm	1	BHB0456	02/14/24	02/14/24	EPA 120.1	

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

Date Sampled: **02/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BHB0455	02/14/24	02/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**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 BHB0720 - EPA 3050B**

**Blank (BHB0720-BLK1)**

Prepared: 02/22/24 Analyzed: 02/23/24

Boron ND 2.00 mg/L

**LCS (BHB0720-BS1)**

Prepared: 02/22/24 Analyzed: 02/23/24

Boron 4.52 2.00 mg/L 5.00 90.5 80-120

**Duplicate (BHB0720-DUP1)**

**Source: 2402151-01**

Prepared: 02/22/24 Analyzed: 02/23/24

Boron 2.86 2.00 mg/L 2.97 3.72 20

**Matrix Spike (BHB0720-MS1)**

**Source: 2402151-01**

Prepared: 02/22/24 Analyzed: 02/23/24

Boron 8.28 2.00 mg/L 5.00 2.97 106 75-125

**Matrix Spike Dup (BHB0720-MSD1)**

**Source: 2402151-01**

Prepared: 02/22/24 Analyzed: 02/23/24

Boron 8.61 2.00 mg/L 5.00 2.97 113 75-125 3.90 25

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

**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 BHD0128 - EPA 3050B**

**Blank (BHD0128-BLK1)**

Prepared: 04/04/24 Analyzed: 04/09/24

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

**LCS (BHD0128-BS1)**

Prepared: 04/04/24 Analyzed: 04/09/24

Arsenic	41.5	0.200	mg/kg wet	40.0	104	80-120
Barium	42.7	0.400	"	40.0	107	80-120
Cadmium	1.96	0.200	"	2.00	98.0	80-120
Copper	39.9	0.400	"	40.0	99.9	80-120
Lead	19.8	0.200	"	20.0	99.1	80-120
Nickel	39.5	0.400	"	40.0	98.8	80-120
Silver	1.97	0.0200	"	2.00	98.5	80-120
Zinc	39.0	0.400	"	40.0	97.5	80-120
Selenium	4.44	0.260	"	4.00	111	80-120

**Duplicate (BHD0128-DUP1)**

Source: 2402151-01

Prepared: 04/04/24 Analyzed: 04/09/24

Arsenic	2.75	0.200	mg/kg dry	2.31	17.1	20	
Barium	82.6	0.400	"	121	37.5	20	QR-04
Cadmium	0.168	0.200	"	0.224	28.6	20	QR-01
Copper	5.84	0.400	"	5.62	3.77	20	
Lead	8.37	0.200	"	8.12	3.02	20	
Nickel	6.08	0.400	"	5.47	10.6	20	
Silver	0.0952	0.0200	"	0.0844	12.1	20	
Zinc	20.9	0.400	"	20.7	0.736	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**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 BHD0128 - EPA 3050B**

**Matrix Spike (BHD0128-MS1)**

Source: 2402151-01

Prepared: 04/04/24 Analyzed: 04/09/24

Arsenic	47.4	0.200	mg/kg dry	46.1	2.31	97.7	75-125				
Barium	105	0.400	"	46.1	121	NR	75-125				QM-05
Cadmium	2.42	0.200	"	2.31	0.224	95.1	75-125				
Copper	29.3	0.400	"	46.1	5.62	51.3	75-125				QM-05
Lead	29.7	0.200	"	23.1	8.12	93.6	75-125				
Nickel	29.5	0.400	"	46.1	5.47	52.1	75-125				QM-05
Silver	2.32	0.0200	"	2.31	0.0844	97.0	75-125				
Zinc	47.5	0.400	"	46.1	20.7	58.2	75-125				QM-05
Selenium	4.16	0.260	"	4.61	ND	90.2	75-125				

**Matrix Spike Dup (BHD0128-MSD1)**

Source: 2402151-01

Prepared: 04/04/24 Analyzed: 04/09/24

Arsenic	47.0	0.200	mg/kg dry	46.1	2.31	96.8	75-125	0.822	25		
Barium	104	0.400	"	46.1	121	NR	75-125	0.780	25		QM-05
Cadmium	2.37	0.200	"	2.31	0.224	93.2	75-125	1.81	25		
Copper	29.1	0.400	"	46.1	5.62	51.0	75-125	0.476	25		QM-05
Lead	29.3	0.200	"	23.1	8.12	91.9	75-125	1.31	25		
Nickel	29.3	0.400	"	46.1	5.47	51.7	75-125	0.510	25		QM-05
Silver	2.32	0.0200	"	2.31	0.0844	97.0	75-125	0.0199	25		
Zinc	43.6	0.400	"	46.1	20.7	49.6	75-125	8.63	25		QM-05
Selenium	4.08	0.260	"	4.61	ND	88.5	75-125	1.88	25		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**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 BHB0413 - General Preparation**

**Blank (BHB0413-BLK1)**

Prepared: 02/13/24 Analyzed: 02/14/24

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

**LCS (BHB0413-BS1)**

Prepared: 02/13/24 Analyzed: 02/14/24

Calcium	5.52	0.0500	mg/L wet	5.00		110	70-130			
Magnesium	5.14	0.0500	"	5.00		103	70-130			
Sodium	5.11	0.0500	"	5.00		102	70-130			

Summit Scientific

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 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**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 BHB0517 - General Preparation**

Duplicate (BHB0517-DUP1)	Source: 2402150-01	Prepared: 02/15/24	Analyzed: 02/16/24		
% Solids	93.8	%	91.6	2.35	20

Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**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			Limit	RPD	Limit		

**Batch BHB0456 - General Preparation**

**Blank (BHB0456-BLK1)**

Prepared & Analyzed: 02/14/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHB0456-BS1)**

Prepared & Analyzed: 02/14/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105


**Duplicate (BHB0456-DUP1)**

Source: 2402150-01

Prepared & Analyzed: 02/14/24

Specific Conductance (EC) 0.334 0.0100 mmhos/cm 0.334 0.0598 20

Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 04/10/24 15:55

**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 BHB0455 - General Preparation**

**LCS (BHB0455-BS1)**

Prepared & Analyzed: 02/14/24

pH 9.14 pH Units 9.18 99.6 95-105

**Duplicate (BHB0455-DUP1)**

Source: 2402150-01

Prepared & Analyzed: 02/14/24

pH 7.96 pH Units 7.80 2.03 20

Summit Scientific

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**Division of Environmental Testing**

2115 N Scranton St Suite 3040A  
Aurora, CO 80045  
800-440-5184

March 18, 2024

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310  
reports@s2scientific.com

**Project Manager :** Mikayla Axtell  
**Project Name :** 2402151  
**Project Number :** N/A

Attached are the analytical results for 2402151 N/A received by Elevation Diagnostics, Division of Environmental Testing on February 27, 2024. This is associated with Elevation's number AA06162 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing

Kristen Reichel  
Laboratory Director  
CSO,CCO





**Division of Environmental Testing**

2115 N Scranton St Suite 3040A  
 Aurora, CO 80045  
 800-440-5184

**Report Date :** 3/18/2024

**Report Time :** 18:16

**FINAL RESULTS REPORT**

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

**Project Manager :** Mikayla Axtell  
**Project Name :** 2402151  
**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA06162-1	BKG01@6.0' Collected : 02/08/2024 14:43	Chromium VI, Soil 03/07/2024 14:24		0.094	mg/kg	0.080	EPA 3060A & EPA 7199
AA06163-1	BKG01@8.0' Collected : 02/08/2024 14:43	Chromium VI, Soil 03/07/2024 14:24		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA06164-1	BKG02@5.0' Collected : 02/08/2024 14:43	Chromium VI, Soil 03/07/2024 14:24		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA06165-1	BKG02@6.0' Collected : 02/08/2024 14:43	Chromium VI, Soil 03/07/2024 14:24		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA06166-1	BKG03@5.0' Collected : 02/08/2024 14:43	Chromium VI, Soil 03/08/2024 14:57		0.083	mg/kg	0.080	EPA 3060A & EPA 7199
AA06167-1	BKG03@6.0' Collected : 02/08/2024 14:43	Chromium VI, Soil 03/08/2024 14:57		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA06168-1	BKG04@6.0' Collected : 02/08/2024 14:43	Chromium VI, Soil 03/08/2024 14:57		0.083	mg/kg	0.080	EPA 3060A & EPA 7199



**Division of Environmental Testing**

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 Aurora, CO 80045  
 800-440-5184

**Report Date :** 3/18/2024

**Report Time :** 18:16

**FINAL RESULTS REPORT**

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

**Project Manager :** Mikayla Axtell  
**Project Name :** 2402151  
**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA06169-1	BKG04@7.0'						
	Collected : 02/08/2024 14:43						
		Chromium VI, Soil 03/08/2024 14:57		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA06170-1	BKG05@6.0'						
	Collected : 02/08/2024 14:43						
		Chromium VI, Soil 03/08/2024 14:57		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA06171-1	BKG05@8.0'						
	Collected : 02/08/2024 14:43						
		Chromium VI, Soil 03/08/2024 14:57		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199



**Division of Environmental Testing**

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Aurora, CO 80045

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**Report Date :** 3/18/2024

**Report Time :** 18:16

**FINAL RESULTS REPORT**

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

**Project Manager :** Mikayla Axtell

**Project Name :** 2402151

**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
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**QC Report**

**CHROM\_VI\_SOIL-2220**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP AA06169	<0.080	0.080	mg/kg		<0.080				
MB AA06387	0.001		mg/kg						
LCS AA06389	0.041		mg/kg	0.040		102.50			
LCS AA06390	0.040		mg/kg	0.040		100.00			

**CHROM\_VI\_SOIL-2221**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP AA06074	<0.080	0.080	mg/kg		<0.080				
MB AA06391	0.001		mg/kg						
LCS AA06393	0.041		mg/kg	0.040		102.50			
LCS AA06394	0.041		mg/kg	0.040		102.50			



**Division of Environmental Testing**

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**Report Date :** 3/18/2024

**Report Time :** 18:16

**FINAL RESULTS REPORT**

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

**Project Manager :** Mikayla Axtell  
**Project Name :** 2402151  
**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
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<u>Qualifier</u>	<u>Explanation</u>
H1	Sample received outside of regulatory holding time.
H2	Sample analyzed outside of regulatory holding time due to a laboratory error.
P1	Sample received outside temperature requirements, 0-6°C.
P2	Sample received unpreserved.
P3	Broken or leaking sample container.
P4	Sample improperly collected
P5	Sample improperly preserved
B	The same analyte is found in the associated blank
B1	Blank failed high, indicating possible high bias in sample results.
B2	Blank failed low, indicating possible low bias in sample results.
MS	Matrix Spike / Matrix Spike Duplicate recovery and/or RPD limit exceeded, indicating potential matrix interference.
QC	Associated batch quality control was outside the acceptable range
D1	Duplicate RPD limit exceeded due to low sample concentration.
D2	Duplicate RPD limit exceeded due to matrix interference.
S	Surrogate recovery failed, indicating potential matrix interference.
RL1	Reporting limits raised due to matrix interference.
RL2	Reporting limits raised due to limited sample.
U	Sample result less than method detection limit.
J	Sample result less than reporting limit but higher than method detection limit.
EST	The concentration indicated has been estimated due to high analyte content
E	Electronic loss or corruption of data.
I	Subcontracted sample



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Cornelius 63N65W 115WNW (Background)

Project Number: UWRWE-A2105-ABN  
Project Manager: Paul Henchan

**Reported:**  
04/10/24 15:55

### 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-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