

# **FREMONT ENVIRONMENTAL INC.**

September 1, 2022

Mr. Daniel Peterson  
Noble Energy Inc.  
2115 117<sup>th</sup> Ave.  
Greeley, CO 80634

Subject:     **Site Investigation Report**  
          Miller 16-29  
          API # 05-123-12830  
          SESE Sec 29, T6N, R64W  
          Weld County, Colorado  
          Fremont Project No. C022-056  
          Facility #323297, Remediation #22488

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Site Investigation Report for the Miller 16-29 tank battery location in Weld County, Colorado. The enclosed report describes site investigation and sampling efforts to assess soil and groundwater quality at the site.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,  
**FREMONT ENVIRONMENTAL INC.**



Paul V. Henehan, P.E.  
Senior Consultant

Enclosure

**SITE INVESTIGATION REPORT**  
**NOBLE ENERGY INC.**  
**MILLER 16-29**  
**WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-056**  
**FACILITY # 323297, REMEDIATION # 22488**

**Prepared by:**

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**September 1, 2022**

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**SITE INVESTIGATION REPORT**  
**NOBLE ENERGY INC.**  
**MILLER 16-29**  
**WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-056**  
**FACILITY # 323297, REMEDIATION # 22488**

**1.0 INTRODUCTION**

The purpose of this document is to present information collected to delineate the extent of petroleum-impacted soil and groundwater at the Miller 16-29 (Miller) tank battery location in Weld County, Colorado. Impacted soil was identified within the Miller produced water vault (PWV) excavation during facility closure activities. Nine soil borings were advanced during the site investigation completed on June 23, 2022, to delineate the magnitude and extent of subsurface soil and groundwater impacts.

**2.0 BACKGROUND INFORMATION**

**2.1 Site Location**

The Miller facility is located approximately 1.3 miles west of Gill, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.1 miles west of the intersection of County Road 64 and County Road 53. The location is further described as the SE  $\frac{1}{4}$  of the SE  $\frac{1}{4}$  of Section 29, Township 6N, Range 64W.

**2.2 Site History**

The site consists of the Miller tank battery which serviced the Miller 16-29 natural gas well. The Miller 16-29 well was drilled in 1986 to a depth of 6,999 feet.

A historical release was discovered within the PWV excavation during decommissioning activities at the Miller facility in May 2022. A site investigation to determine the extent of soil impacts was undertaken on June 23, 2022. Groundwater was encountered at that time.

### **3.0 SITE INVESTIGATION ACTIVITIES**

#### **3.1 Soil Borings/Monitoring Wells**

A total of nine soil borings were advanced utilizing a Geoprobe rig during the site investigation conducted at the former PWV location on June 23, 2022. Eight of the nine borings were completed as temporary, one-inch diameter, monitoring wells. These borings and monitoring wells were used to delineate the extent of soil and groundwater impacts at the site. The location of the soil borings/monitoring wells are illustrated on the attached figures.

Generally, the subsurface consists of sandy silt that extends to approximately 6 feet. The sandy silty in underlain by a moist to wet, stained, sandy clay extending to a depth of at least 16 feet. The maximum depth of the borings was 16 feet. Groundwater is present at the site at an average depth of approximately 10 feet. Geologic cross sections illustrating the soil lithology are presented on Figure 4.

The one-inch diameter monitoring wells were constructed with 10-feet of well screen placed at a total depth of approximately 16 feet and completed at the ground surface as temporary PVC stick-up wells. Soil samples from each of the borings were evaluated in the field using a photoionization detector (PID). Logs of the borings and monitoring wells are presented in Appendix A.

Soil samples were collected from each of the borings and sent to Summit Scientific, Inc. in Golden, Colorado for the analyses of for benzene, toluene, ethylbenzene and total

xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene (TMB), Total Petroleum Hydrocarbons - Gasoline Range Organics (TPH-GRO) by EPA method 8260B, TPH - Diesel Range Organics (TPH-DRO), Extended Range Organics (TPH-ORO) by EPA method 8015, Polycyclic Aromatic Hydrocarbons (PAH) Acenaphthene, Anthracene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Chrysene, Dibenz (a,h) anthracene, Fluoranthene, Fluorene, Indeno (1,2,3-cd) pyrene, Pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene by EPA method 8270D.

Soil impacts exceeding the COGCC Table 915-1 protection of groundwater soil screening levels (PGSSLs) for organic petroleum constituents were observed in two of the nine borings. The soil chemistry is presented on Figure 5 and summarized in Tables 1 and 2. A copy of the laboratory report and chain of custody documentation is provided in Appendix C.

### **3.2 Groundwater Monitoring**

The groundwater levels were measured in eight monitoring wells on June 23, 2022 in accordance with the Sampling Plan included in Appendix B. The data is summarized in Table 3.

Water table contours inferred from the June 2022 data are illustrated on Figure 6. Based on these data, groundwater is inferred to flow to the south. The water table gradient was calculated at approximately 0.051 feet per foot (ft/ft) for the June 2022 data.

### **3.3 Groundwater Sampling and Analysis**

Groundwater samples were collected from seven monitoring wells on June 23, 2022. MW-4 was not sampled due to insufficient water. The samples were submitted to Summit

Scientific, Inc. for the analyses of organic petroleum constituents BTEX, TMBs and naphthalene by EPA Method 8260B.

The groundwater concentrations in MW-1 and MW-3 exceeded the COGCC Table 915-1 concentration standard of 5 µg/L for benzene with concentrations of 3,200 µg/L and 980 µg/L, respectively. Additionally, MW-1 and MW-3 exceed the COGCC Table 915-1 standards for xylenes, 1,2,4 TMB and 1,3,5 TMB.

The groundwater chemistry is shown on Figure 7 and the analytical data are summarized in Table 3. A copy of the laboratory report and chain of custody documentation is provided in Appendix C.

#### **4.0 DISCUSSION**

A site investigation was conducted at the former Miller tank battery location on June 23, 2022 resulting from a historical release discovered within the PWV excavation during site decommissioning activities. Nine soil borings were advanced and eight were completed as temporary monitoring wells on site to delineate the magnitude and extent of soil and groundwater impacts.

Soil impacts above the COGCC Table 915-1 protection of groundwater soil screening levels were observed in two of the nine soil borings. The groundwater data collected from the temporary monitoring wells indicate that the groundwater exceeded the COGCC Table 915-1 organic constituent standards for benzene, xylenes and TMBs. The soil and groundwater data are illustrated and summarized in the attached tables and figures.

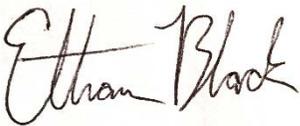
Impacted soils at the Miller tank battery location will be removed via excavation. The excavation extent will be based on the location and depths of residual impacts observed during the site investigation.

Groundwater will continue to be monitored quarterly in accordance with the groundwater sampling plan outlined in Appendix B. Monitoring wells destroyed as a result of excavation activities will be replaced following completion of the excavation. After four consecutive quarters of clean groundwater and laboratory analysis demonstrating remediation of impacted soils in the excavation sidewalls and floor of the area encompassing the initial release, Noble will request closure under the COGCC Table 915-1 PGSSLs.

### **5.0 REMARKS**

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

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



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Ethan D. Black, P.G.

Geologist

9/1/22

Date \_\_\_\_\_

Reviewed by:



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Paul V. Henehan, P.E.

Senior Consultant

9/1/22

Date \_\_\_\_\_

## TABLES

TABLE 1  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
MILLER 16-29 FACILITY, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-056

Sample	Date Sampled	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)
AST 0.5 Ft	5/18/2022	0.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
Separator 1 Ft	5/18/2022	1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
PWV E. Wall 4 Ft	5/18/2022	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
PWV Floor 6 Ft	5/18/2022	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
BG-1 1 Ft	5/18/2022	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1 6ft	6/23/2022	6	<b>0.0031</b>	<0.0050	0.25	0.26	<b>1.1</b>	<0.0050	<0.0038	110	56	<50
MW-1 12ft	6/23/2022	12	<b>0.090</b>	<0.0050	0.051	0.26	<b>0.063</b>	<b>0.021</b>	<b>0.0059</b>	7.3	<50	<50
MW-1 16ft	6/23/2022	16	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-3 7ft	6/23/2022	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	1.6	71	<50
MW-3 12ft	6/23/2022	12	<b>0.52</b>	<0.0050	<b>3.5</b>	4.8	<b>6.2</b>	<b>0.22</b>	<b>0.39</b>	<b>980</b>	<b>660</b>	<50
MW-3 16ft	6/23/2022	16	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	2.5	<50	<50
MW-4 6ft	6/23/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-4 12ft	6/23/2022	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-5 6ft	6/23/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-5 13ft	6/23/2022	13	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	1.4	<50	<50
MW-5 16ft	6/23/2022	16	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-6 6ft	6/23/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-6 12ft	6/23/2022	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-6 16ft	6/23/2022	16	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-7 6ft	6/23/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-7 12ft	6/23/2022	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-7 16ft	6/23/2022	16	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-8 6ft	6/23/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-8 12ft	6/23/2022	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-8 16ft	6/23/2022	16	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-9 6ft	6/23/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-9 12ft	6/23/2022	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
MW-9 16ft	6/23/2022	16	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
SB-2 3ft	6/23/2022	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50

Sample	Date Sampled	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)
SB-2 12ft	6/23/2022	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500	500
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500*	500*	500*

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (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.  
MILLER 16-29 FACILITY, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-056

Sample	Date Sampled	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Benzo (a) pyrene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluor-anthene (mg/kg)	Fluorene (mg/kg)	Indeno pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Pyrene (mg/kg)
AST 0.5 Ft	5/18/2022	0.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000663	0.00254	<0.00067
Separator 1 Ft	5/18/2022	1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PWV E. Wall 4 Ft	5/18/2022	4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<b>0.00749</b>	0.0127	<0.00067
PWV Floor 6 Ft	5/18/2022	6	<0.00067	<0.00067	0.00183	0.00281	0.00164	0.00352	0.00223	<0.00067	0.00173	0.0014	0.00462	<0.00067	<0.00067	0.00192
BG-1 1 Ft	5/18/2022	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1 6ft	6/23/2022	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	0.00679	<0.00500
MW-1 12ft	6/23/2022	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-1 16ft	6/23/2022	16	<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-3 7ft	6/23/2022	7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00729	<0.00500	<b>0.0142</b>	0.0170	<0.00500
MW-3 12ft	6/23/2022	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0291	<0.00500	<0.00500	0.0714	<0.00500	<b>0.567</b>	<b>0.822</b>	0.0157
MW-3 16ft	6/23/2022	16	<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-4 6ft	6/23/2022	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
MW-4 12ft	6/23/2022	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-5 6ft	6/23/2022	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
MW-5 13ft	6/23/2022	13	<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-5 16ft	6/23/2022	16	<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-6 6ft	6/23/2022	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
MW-6 12ft	6/23/2022	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-6 16ft	6/23/2022	16	<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-7 6ft	6/23/2022	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
MW-7 12ft	6/23/2022	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-7 16ft	6/23/2022	16	<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-8 6ft	6/23/2022	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
MW-8 12ft	6/23/2022	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-8 16ft	6/23/2022	16	<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-9 6ft	6/23/2022	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
MW-9 12ft	6/23/2022	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-9 16ft	6/23/2022	16	<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-2 3ft	6/23/2022	3	<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-2 12ft	6/23/2022	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3

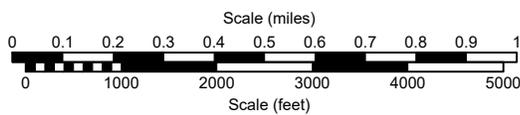
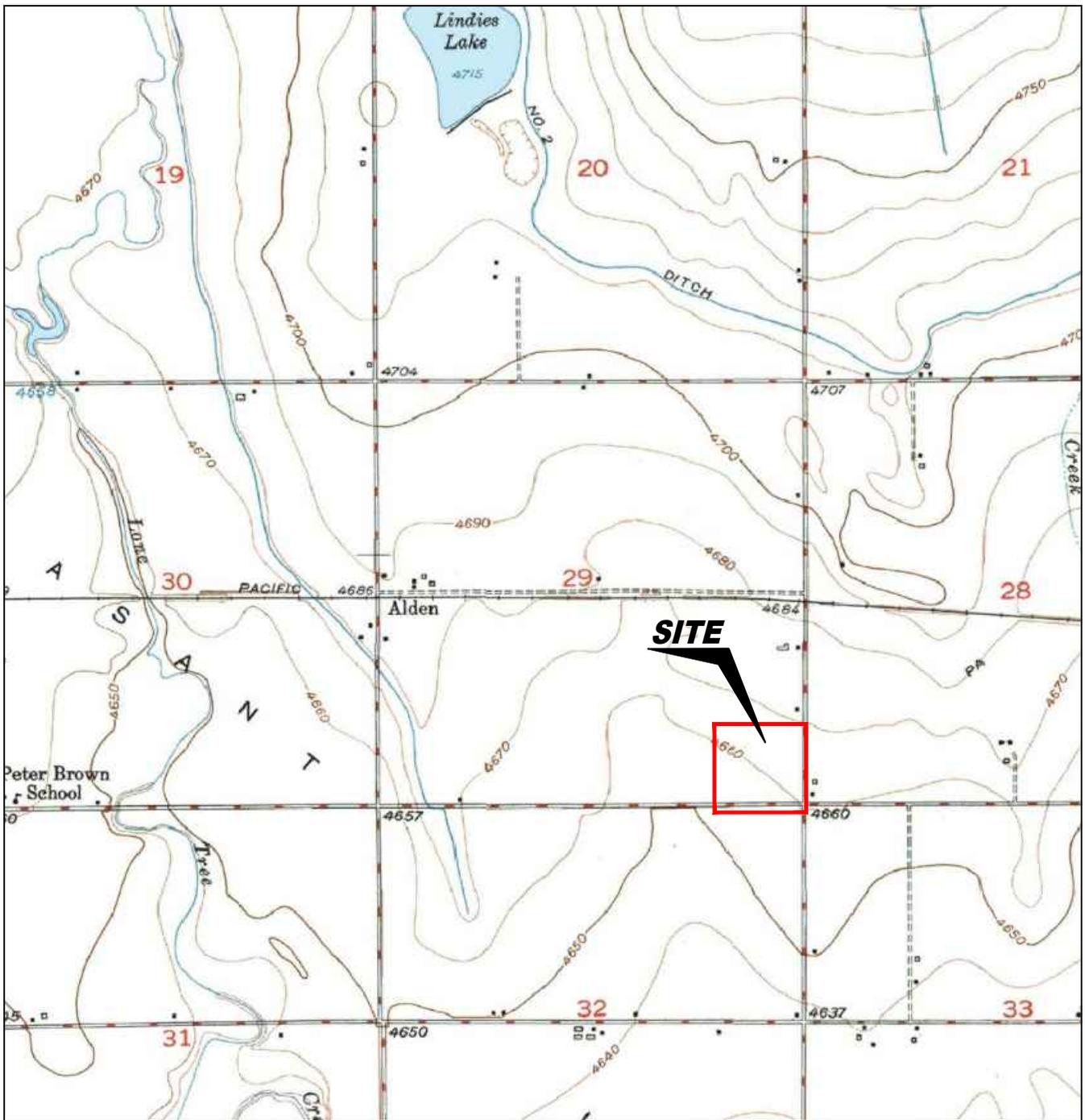
Blue faced values exceed the COGCC Table 915-1 concentrations  
Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

**TABLE 3**  
**SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**MILLER 16-29 FACILITY, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-056**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPH-THALENE (µg/L)	1,2,4 TMB (µg/L)	1,3,5 TMB (µg/L)	TOC ELEVATION (Ft)	GROUNDWATER DEPTH (Ft)	GROUNDWATER ELEVATION (Ft)	FREE PRODUCT DEPTH (Ft)
MW-1	6/23/2022	<b>3200</b>	<1.0	460	<b>2800</b>	<1.0	<b>200</b>	<b>86</b>	100.00	10.08	89.92	NP
MW-3	6/23/2022	<b>980</b>	<1.0	190	<b>1500</b>	24	<b>270</b>	<b>110</b>	99.86	9.58	90.28	NP
MW-4	6/23/2022	NS	NS	NS	NS	NS	NS	NS	100.74	18.36	82.38	NP
MW-5	6/23/2022	1.1	<1.0	<1.0	4.3	1.9	<1.0	<1.0	99.61	9.36	90.25	NP
MW-6	6/23/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.27	10.61	89.66	NP
MW-7	6/23/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.85	11.05	89.80	NP
MW-8	6/23/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.32	12.00	88.32	NP
MW-9	6/23/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.43	10.92	89.51	NP
Table 915-1 Limits		5	560	700	1,400	140	67	67				

Bold face values exceed the COGCC limits

## FIGURES



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
**SITE LOCATION MAP**

**NOBLE ENERGY, INC. ~ MILLER 16-29**  
 SESE Sec. 29, T6N, R64W, 6th PM  
 Weld County, Colorado  
 40.451558°, -104.566222°

Project # <b>C022-056</b>	API # <b>05-123-12830</b>	Facility ID <b>482045</b>
Date <b>8/11/22</b>	Reviewed By <b>EB</b>	Filename <b>22056T</b>





**LEGEND**

- MONITORING WELL LOCATION
- SOIL BORING
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- CONTAINMENT BERM
- - - - - EXTENT OF EXCAVATION
- DUMP LINES
- FENCE LINE

**Figure 2  
SITE MAP**

**NOBLE ENERGY, INC. ~ MILLER 16-29**  
 SESE Sec. 29, T6N, R64W, 6th PM  
 Weld County, Colorado  
 40.451558°, -104.566222°

Project No. <b>C022-056</b>	API # <b>05-123-12830</b>	Facility # <b>482045</b>
Date <b>8/11/22</b>	Reviewed By <b>EB</b>	Filename <b>22056Q</b>





**LEGEND**

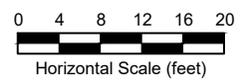
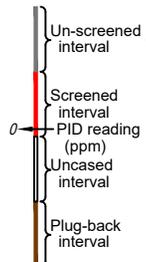
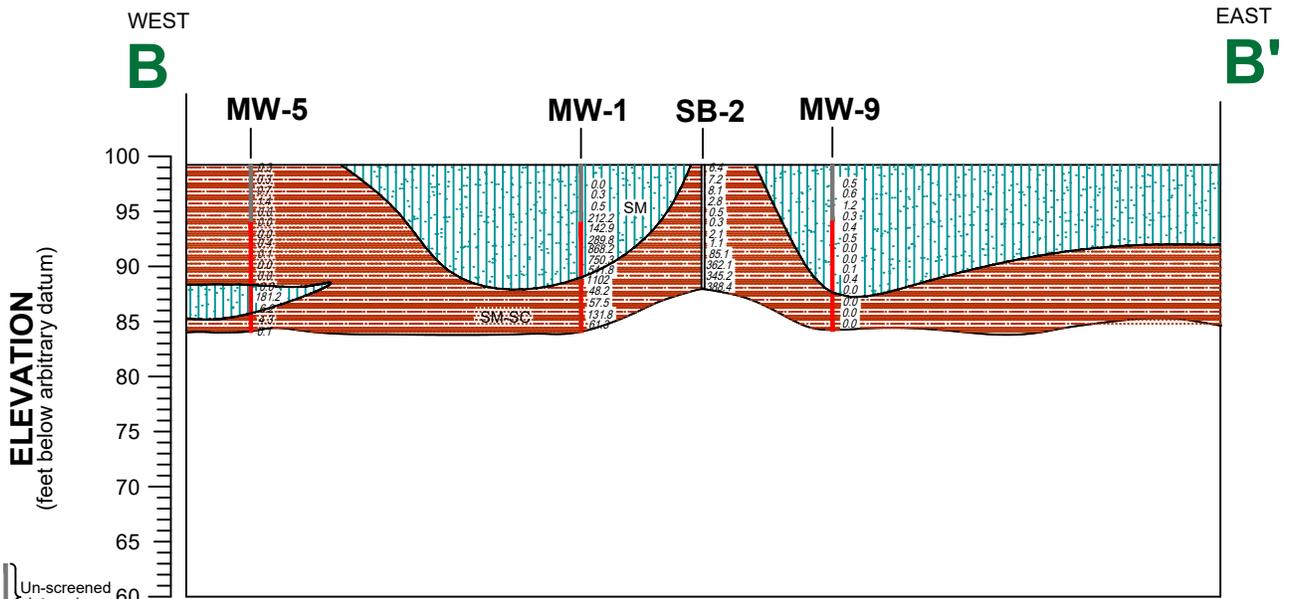
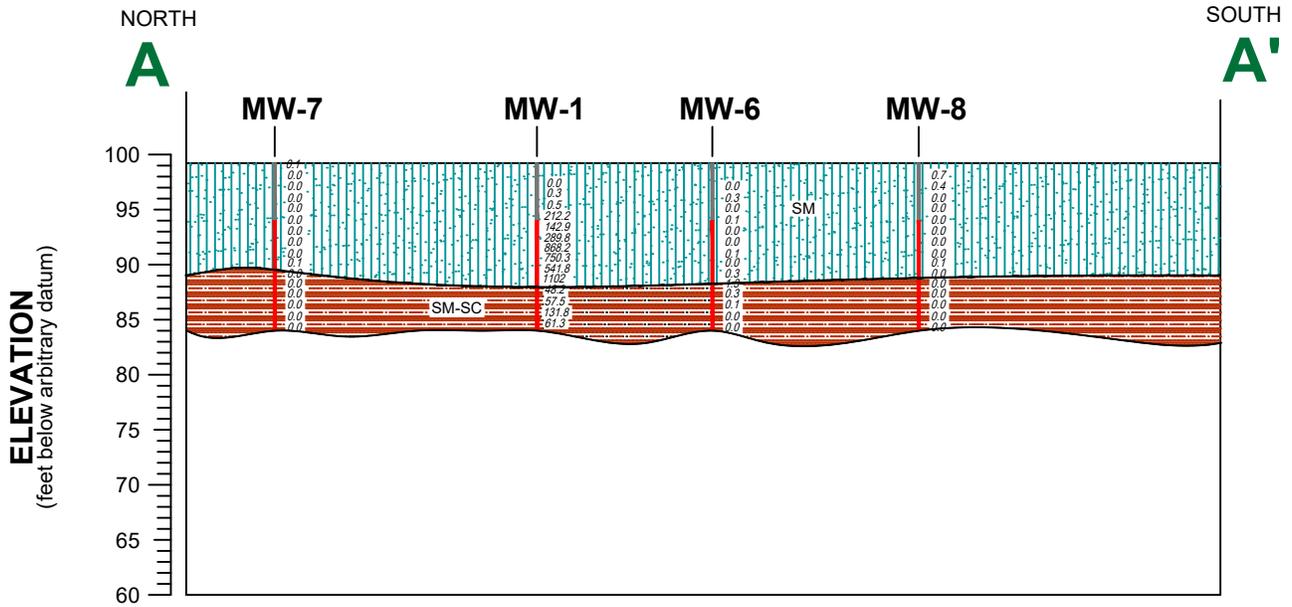
- MONITORING WELL LOCATION
- SOIL BORING
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- CONTAINMENT BERM
- EXTENT OF EXCAVATION
- DUMP LINES
- FENCE LINE
- CROSS SECTION OUT LINE

**Figure 3  
CROSS SECTION MAP**

**NOBLE ENERGY, INC. ~ MILLER 16-29**  
 SESE Sec. 29, T6N, R64W, 6th PM  
 Weld County, Colorado  
 40.451558°, -104.566222°

Project No. <b>C022-056</b>	API # <b>05-123-12830</b>	Facility # <b>482045</b>
Date <b>8/11/22</b>	Reviewed By <b>EB</b>	Filename <b>22056Q</b>





**LEGEND**

Clay, high plasticity	Sand, well-graded	FILL
Clay, low plasticity	Sand, poorly-graded	Asphalt
Silt, high plasticity	Sand, clayey	Concrete
Silt, low plasticity	Sand silty	Basin fill
Clay, silty high plasticity	Sand, silty sandy clay	Claystone
Clay, silty, low plasticity	Gravel, poorly-graded	Siltstone
Silt, clayey high plasticity	Gravel, clayey	Shale
Silt, clayey low plasticity	Gravel, silty	Sandstone

Figure 4  
**CROSS SECTIONS A-A' and B-B'**

**NOBLE ENERGY, INC. ~ MILLER 16-29**  
SESE Sec. 29, T6N, R64W, 6th PM  
Weld County, Colorado  
40.451558°, -104.566222°

Project No. <b>C022-056</b>	API # <b>05-123-12830</b>	Facility # <b>482045</b>
Date <b>8/12/22</b>	Remediation # <b>EB</b>	Filename <b>22056X</b>



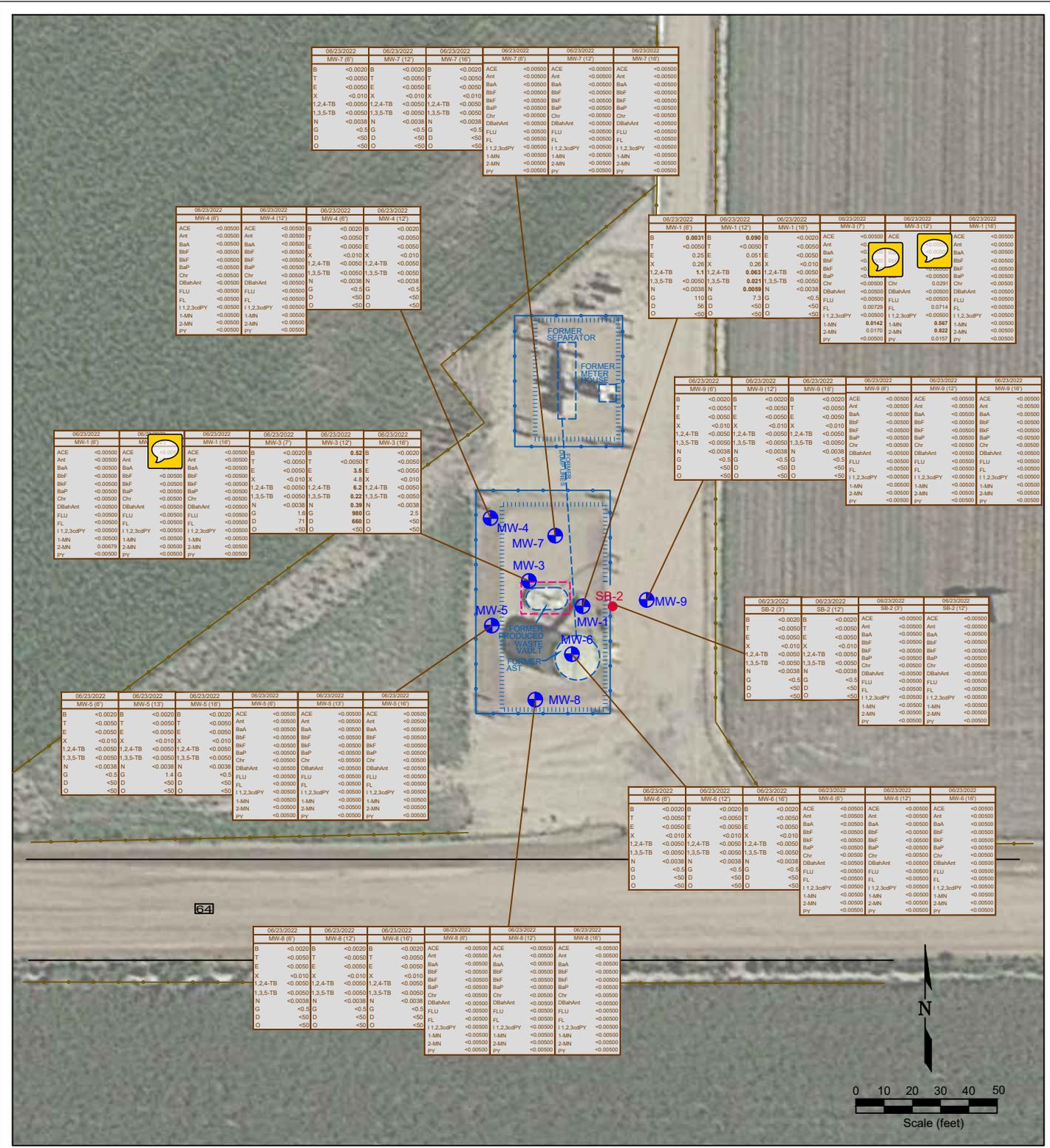


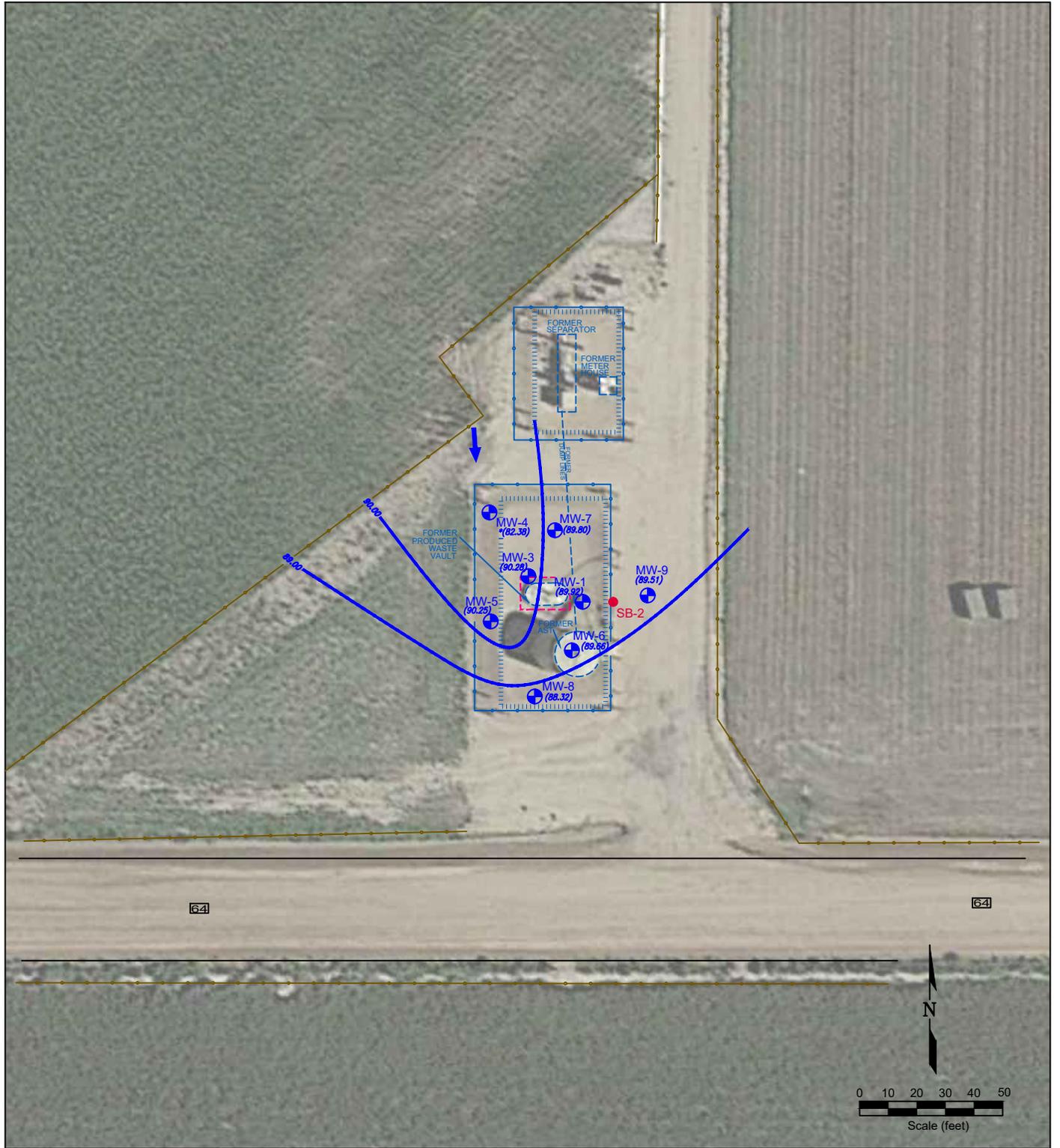
Figure 5  
**SOIL CHEMISTRY MAP**  
 June 23, 2022

**NOBLE ENERGY, INC. ~ MILLER 16-29**  
 SESE Sec. 29, T6N, R64W, 6th PM  
 Weld County, Colorado  
 40.451558°, -104.566222°

Project No. <b>C022-056</b>	API # <b>05-123-12830</b>	Facility # <b>482045</b>
Date <b>8/11/22</b>	Reviewed By <b>EB</b>	Filename <b>22056Q</b>



06/23/2022	DATE SAMPLED	08/23/2022	DATE SAMPLED	08/18/2022	DATE SAMPLED
MW-1 (6')	SAMPLE ID and DEPTH (ft)	MW-1 (6')	SAMPLE ID and DEPTH (ft)	MW E Well (1')	SAMPLE ID & DEPTH (ft)
ACE	ACENAPHTHENE (mg/kg)	B	BENZENE (mg/kg)	SAR	SAR (units)
Ant	ANTHRACENE (mg/kg)	T	TOLUENE (mg/kg)	pH	pH (units)
BaA	BENZO (A) ANTHRACENE (mg/kg)	X	ETHYLBENZENE (mg/kg)	EC	EC (mmhos/cm)
BbF	BENZO (B) FLUORANTHENE (mg/kg)	1,2,4-TB	TOTAL XYLENES (mg/kg)	B	BORON (mg/L)
BkF	BENZO (K) FLUORANTHENE (mg/kg)	1,3,5-TB	1,2,4-TRIMETHYLBENZENE (mg/kg)		
BaP	BENZO (A) PYRENE (mg/kg)	N	1,3,5-TRIMETHYLBENZENE (mg/kg)		
Chr	CHRYSENE (mg/kg)	G	NAPHTHALENE (mg/kg)		
DBaAnt	DIBENZ (A,H) ANTHRACENE (mg/kg)	D	TPH-GRO (mg/kg)		
FLU	FLUORANTHENE (mg/kg)	O	TPH-DRO (mg/kg)		
1,2,3cdPY	INDENO (1,2,3-CD) PYRENE (mg/kg)		TPH-ORO (mg/kg)		
1-MN	1-METHYLNAPHTHALENE (mg/kg)				
2-MN	2-METHYLNAPHTHALENE (mg/kg)				
Py	PYRENE (mg/kg)				



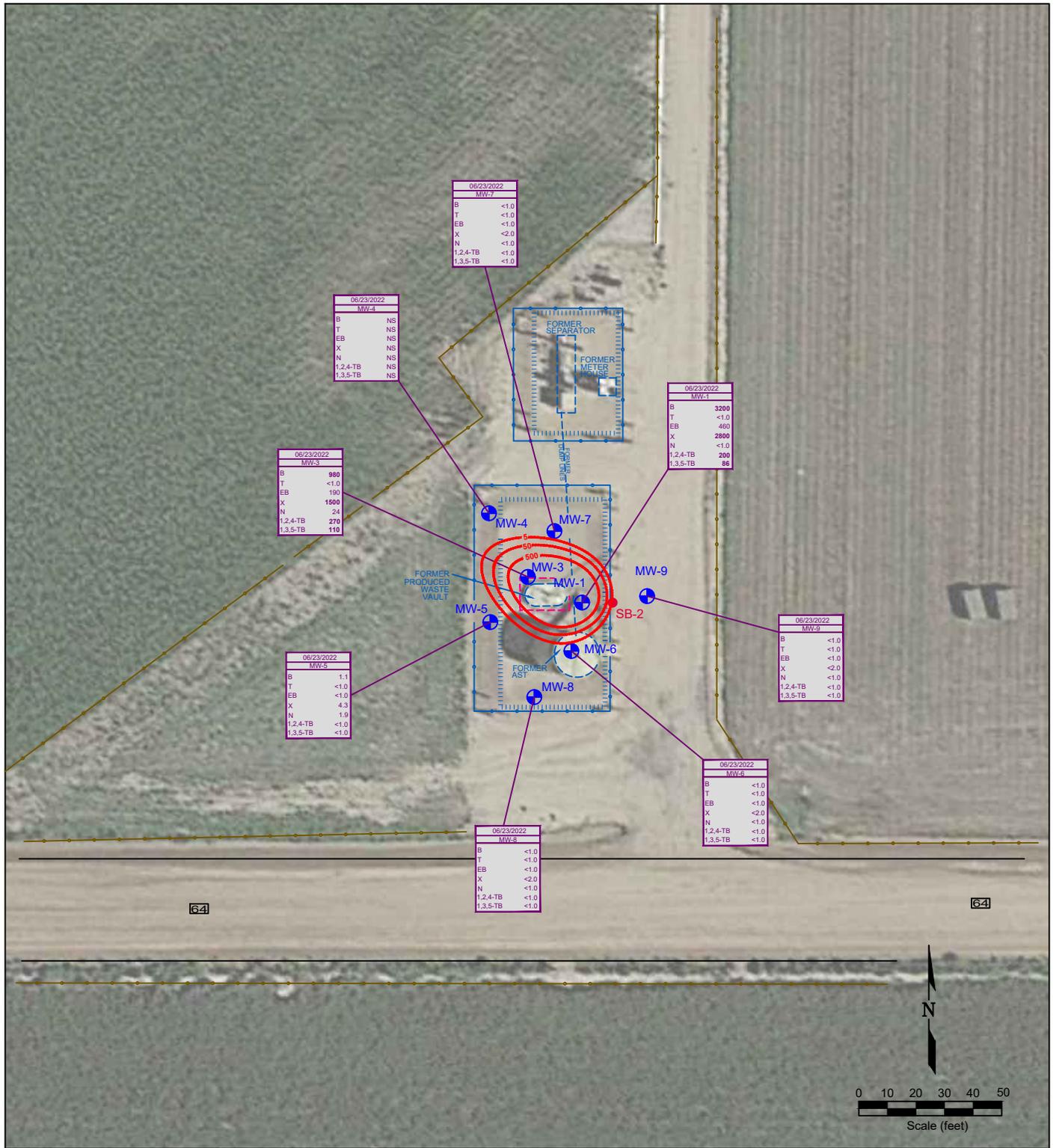
**LEGEND**

- MONITORING WELL LOCATION
- SOIL BORING
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- CONTAINMENT BERM
- EXTENT OF EXCAVATION
- DUMP LINES
- FENCE LINE
- NOT USED FOR CONTOURING
- GROUND WATER ELEVATION (feet above mean sea level)
- WATER TABLE CONTOUR (feet above mean sea level)
- INFERRED GROUND WATER FLOW DIRECTION

**Figure 6**  
**GROUNDWATER CONTOURS MAP**  
**June 23, 2022**  
**NOBLE ENERGY, INC. ~ MILLER 16-29**  
 SESE Sec. 29, T6N, R64W, 6th PM  
 Weld County, Colorado  
 40.451558°, -104.566222°

Project No. <b>C022-056</b>	API # <b>05-123-12830</b>	Facility # <b>482045</b>
Date <b>8/16/22</b>	Reviewed By <b>EB</b>	Filename <b>22056Q</b>





**LEGEND**

● MONITORING WELL LOCATION  
 ● SOIL BORING  
 ○ ABOVE GROUND STORAGE TANK  
 [FORMER] FORMER FACILITY  
 [-----] CONTAINMENT BERM  
 [-----] EXTENT OF EXCAVATION  
 [-----] DUMP LINES  
 [-----] FENCE LINE  
 [---] INFERRED BENZENE ISO-CONCENTRATION (µg/L)

DATE SAMPLED	SAMPLE ID	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYLBENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPHTHALENE (µg/L)	1,2,4-TRIMETHYLBENZENE (µg/L)	1,3,5-TRIMETHYLBENZENE (µg/L)
06/23/2022	MW-1	3200	<1.0	460	2800	<1.0	200	86

**Figure 7  
GROUNDWATER CHEMISTRY MAP  
June 23, 2022**

**NOBLE ENERGY, INC. ~ MILLER 16-29**  
 SESE Sec. 29, T6N, R64W, 6th PM  
 Weld County, Colorado  
 40.451558°, -104.566222°

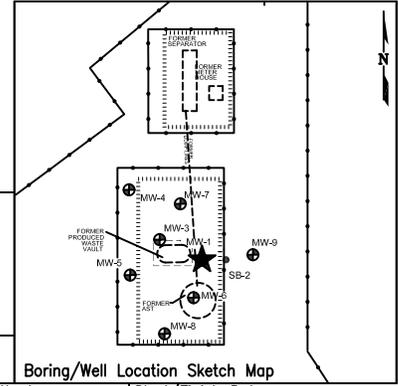
Project No. <b>C022-056</b>	API # <b>05-123-12830</b>	Facility # <b>482045</b>
Date <b>8/16/22</b>	Reviewed By <b>EB</b>	Filename <b>22056Q</b>



APPENDIX A  
**BORING LOGS**



# BORING/WELL CONSTRUCTION LOG



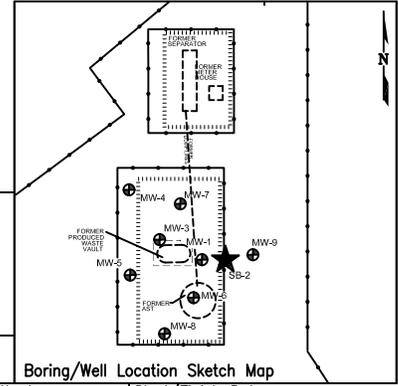
Page 1 of 1

Boring/Well No. <b>MW-1</b>		Total Depth <b>16'</b>	Location <b>Noble Energy, Inc. Miller 16-29 SESE Sec. 29, T6N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-056 Noble Miller 16-29</b>			Approved By			
Drilling Contractor/Driller <b>Drill Pro</b>			Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>			
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>06/23/2022</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. .	Screen: Type <b>SCH40</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

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5			Brown SM, fine to coarse		45%		0.0
							0.3
							0.5
							212.2
10			Gray to black staining, SM-SC, fine, odor		96%		142.9
							389.8
							868.3
							750.3
							541.8
15			- saturated at 11'		100%		1102
							48.2
							57.5
							131.8
20			TD 16'		98%		61.8



# BORING/WELL CONSTRUCTION LOG



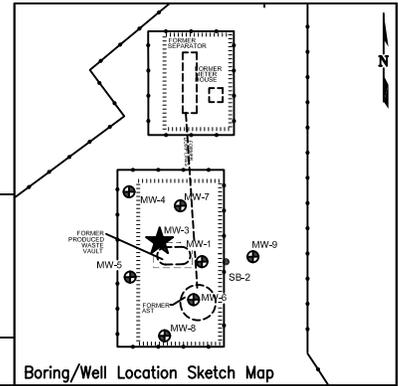
Page 1 of 1

Boring/Well No. <b>SB-2</b>		Total Depth <b>12'</b>	Location <b>Noble Energy, Inc. Miller 16-29 SESE Sec. 29, T6N, R64W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>C022-056 Noble Miller 16-29</b>		Approved By					
Drilling Contractor/Driller <b>Drill Pro</b>		Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>					
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>06/23/2022</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			SM-SC	Brown to red SM-SC fine to medium		90%	6.4			
									7.2	
									8.1	
									2.8	
									0.5	
									100%	
									0.3	
									2.1	
									1.1	
									85.1	
10				Gray to black staining, SM-SC, fine to medium, odor		100%	362.1			
				Sand - coarse, gray black staining SM-SC, odor			345.2			
				- saturated at 11'			388.4			
15										
20										



# BORING/WELL CONSTRUCTION LOG



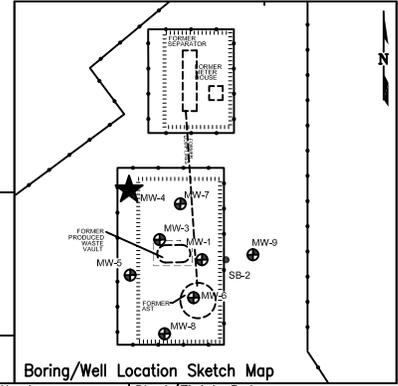
Page 1 of 1

Boring/Well No. <b>MW-3</b>		Total Depth <b>16'</b>	Location <b>Noble Energy, Inc. Miller 16-29 SESE Sec. 29, T6N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-056 Noble Miller 16-29</b>			Approved By			
Drilling Contractor/Driller <b>Drill Pro</b>			Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>			
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>06/23/2022</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. .	Screen: Type <b>SCH40</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

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	Bentonite	<b>SM</b>	Brown SM, medium to coarse		40%	0.4	
			Brown, SM-SC, fine, odor			0.5	
10	#10-20 Silica Sand	<b>SM-SC</b>	Gray to black stained, SM-SC, odor		60%	12.8	
			- moist at 8'			29.2	
						200.2	
						445.1	
15	1" Screen				100%	923.1	
						1197	
						603.4	
						241.3	
20					100%	243.1	
						18.1	
							9.1
			TD 16'				



# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. <b>MW-4</b>		Total Depth <b>16'</b>	Location <b>Noble Energy, Inc. Miller 16-29 SESE Sec. 29, T6N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-056 Noble Miller 16-29</b>			Approved By			
Drilling Contractor/Driller <b>Drill Pro</b>			Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>			
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>06/23/2022</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. .	Screen: Type <b>SCH40</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

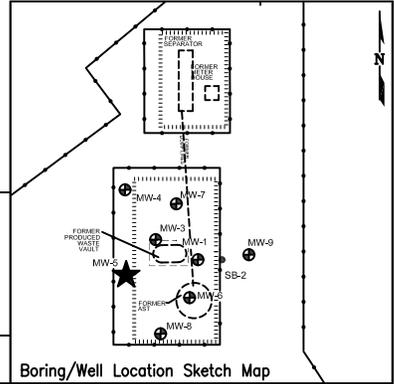
DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5			Brown SM, medium to coarse	-	60%	-	-
			- hintz of black and brown SM-SC				
10			Brown, SM-SC, fine to medium	-	90%	-	-
			- saturated at 11'				
15		-		-	0%	-	-
20							



# BORING/WELL CONSTRUCTION LOG

Page 1 of 1

Boring/Well No. <b>MW-5</b>	Total Depth <b>16'</b>	Location <b>Noble Energy, Inc. Miller 16-29 SESE Sec. 29, T6N, R64W, 6th PM Weld County, Colorado</b>		
Project No./Name <b>C022-056 Noble Miller 16-29</b>		Approved By		
Drilling Contractor/Driller <b>Drill Pro</b>		Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>		
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>06/23/2022</b>
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. .	Screen: Type <b>SCH40</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	



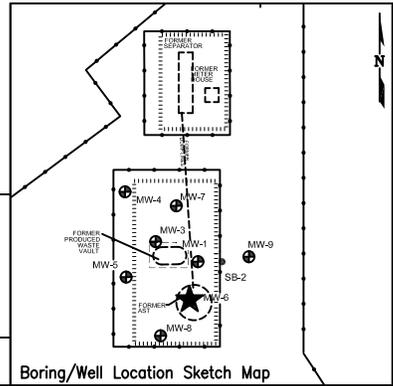
DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	Bentonite	SM	Brown SM-SC, fine to medium		75%	0.3 0.3 0.7 1.4 0.0	0.3 0.3 0.7 1.4 0.0
10	#10-20 Silica Sand 1" Screen	SM-SC	Brown, SM-SC, fine to medium		100%	0.0 0.4 0.1 0.0	0.0 0.4 0.1 0.0
15			- saturated at 11' Gray to black SM, medium to coarse		100%	0.0 181.2 6.2 4.3	0.0 181.2 6.2 4.3
20			gray to black SM-SC TD 16'			0.1	0.1



# BORING/WELL CONSTRUCTION LOG

Page 1 of 1

Boring/Well No. <b>MW-6</b>		Total Depth <b>16'</b>	Location <b>Noble Energy, Inc. Miller 16-29 SESE Sec. 29, T6N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-056 Noble Miller 16-29</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>06/23/2022</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. .	Screen: Type <b>SCH40</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



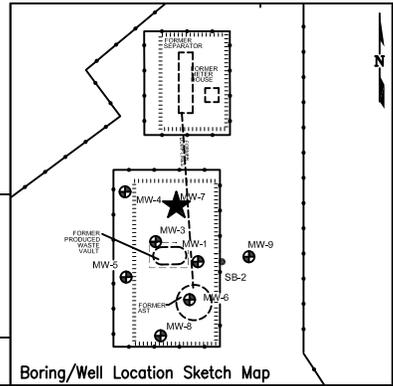
DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)	
		GRAPHIC LOG	VISUAL DESCRIPTION					
5			Brown SM-SC, fine to medium	-	-	-	-	
			SM					
			SM-SC					
			SM-SC					
			SM-SC					
10			Light brown, SM, fine to medium	-	-	-	-	
			- saturated at 11'					
			SM					
			SM-SC					
			SM-SC					
15			Brown-grey SM-SC, fine to medium	-	-	-	-	
			SM-SC					
			SM-SC					
			SM-SC					
			SM-SC					
20			TD 16'					



# BORING/WELL CONSTRUCTION LOG

Page 1 of 1

Boring/Well No. <b>MW-7</b>		Total Depth <b>16'</b>	Location <b>Noble Energy, Inc. Miller 16-29 SESE Sec. 29, T6N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-056 Noble Miller 16-29</b>			Approved By			
Drilling Contractor/Driller <b>Drill Pro</b>			Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>			
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>06/23/2022</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. .	Screen: Type <b>SCH40</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



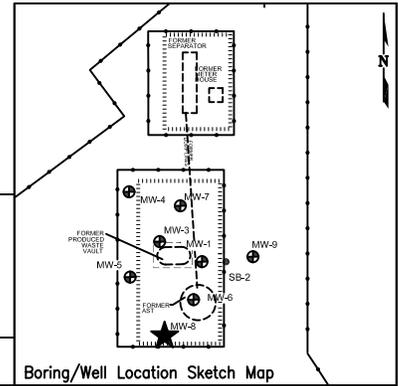
DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
5	Bentonite	1"	SM	Brown SM, fine to medium		85%	0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0
10	#10-20 Silica Sand	Screen	SM-SC	- saturated at 11' Brown, SM-SC, fine to medium		100%	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
15								0.0 0.0 0.0 0.0
20				TD 16'				



# BORING/WELL CONSTRUCTION LOG

Page 1 of 1

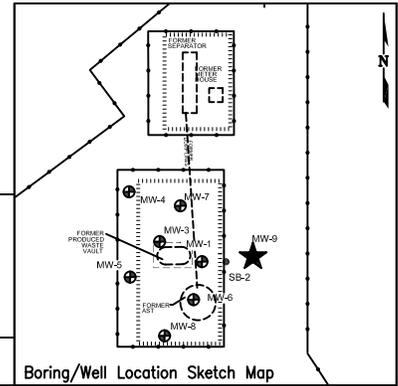
Boring/Well No. <b>MW-8</b>		Total Depth <b>16'</b>	Location <b>Noble Energy, Inc. Miller 16-29 SESE Sec. 29, T6N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-056 Noble Miller 16-29</b>		Drilling Contractor/Driller <b>Drill Pro</b>				
Geologist/Office <b>Jeff Griggs / Fremont 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>06/23/2022</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. .	Screen: Type <b>SCH40</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



DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5			Brown SM, fine to medium		80%		0.7
							0.4
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
10			Brown, SM-SC, fine to medium		90%		0.1
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
15			- saturated at 11'		100%		0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
20					100%		0.0
							0.0



# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. <b>MW-9</b>		Total Depth <b>16'</b>	Location <b>Noble Energy, Inc. Miller 16-29 SESE Sec. 29, T6N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-056 Noble Miller 16-29</b>			Approved By			
Drilling Contractor/Driller <b>Drill Pro</b>			Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>			
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>06/23/2022</b>		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. .	Screen: Type <b>SCH40</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

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SM	Brown SM, fine to medium		48%	0.8	
10		SM-SC	- saturated at 11'		90%	0.6	
15		SM-SC	Brown, SM-SC, fine to medium		100%	0.4	
20			TD 16'				

**APPENDIX B**

**SAMPLING PLAN**

## SAMPLING METHODS AND PROCEDURES

### Water Level Measurements

All groundwater level measurements will be obtained using an electric measuring device, which indicates when a probe is in contact with groundwater. Measurements will be obtained by lowering the device into the well until the water surface had been encountered, and by measuring the distance from the top of the inside riser pipe to the probe. All the measurements will be recorded to the nearest 0.01 ft. To minimize cross-contamination, the water level indicator will be decontaminated with isopropyl alcohol and distilled water between each well.

### Monitoring Well Sampling

All monitoring wells were sampled from the “cleanest” to the “most contaminated” according to the protocols listed below.

#### Field Protocol

- Step 1            Measure water level in each well.
- Step 2            Purge each monitoring well by evacuating a minimum of three well bore volumes using a disposable polyethylene bailer.
- Step 3            Collect water samples using a disposable polyethylene bailer.
- Step 4            Cool samples to approximately 4°C for transportation.
- Step 5            Store water samples and transport to a specific laboratory, following all documentation and chain-of-custody procedures.

Upon completion of groundwater sampling, a chain-of-custody log will be completed. Chain-of-custody records include the following information: project, project number, shipped by, shipped to, suspected hazard, sampling point, location, field identification number, date collected, sample type, number of containers, analysis required, and sampler's signature.

The chain-of-custody records will be shipped with the samples to the laboratory. Upon arrival at the laboratory the samples will be checked in and signed by the appropriate laboratory personnel. Laboratory identification numbers will be noted on the chain-of-custody record. Upon completion of the laboratory analysis, the completed chain-of-custody record will be returned to the project manager.

### **Analytical Methods**

The following list identifies the various chemical constituents and analytical methods which will be used for their quantification.

<u>Chemical Parameter</u>	<u>Method</u>
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	EPA Method – 8260B
1,2,4- and 1,3,5-Trimethylbenzene and Naphthalene	EPA Method – 8260B

APPENDIX C

LABORATORY DOCUMENTATION

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 05, 2022

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Miller 16-29  
Work Order #2206424

Enclosed are the results of analyses for samples received by Summit Scientific on 06/24/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 6ft	2206424-01	Soil	06/23/22 00:00	06/24/22 15:00
MW-1 12ft	2206424-02	Soil	06/23/22 00:00	06/24/22 15:00
MW-1 16ft	2206424-03	Soil	06/23/22 00:00	06/24/22 15:00
SB-2 3ft	2206424-04	Soil	06/23/22 00:00	06/24/22 15:00
SB-2 12ft	2206424-05	Soil	06/23/22 00:00	06/24/22 15:00
MW-3 7ft	2206424-06	Soil	06/23/22 00:00	06/24/22 15:00
MW-3 12ft	2206424-07	Soil	06/23/22 00:00	06/24/22 15:00
MW-3 16ft	2206424-08	Soil	06/23/22 00:00	06/24/22 15:00
MW-4 6ft	2206424-09	Soil	06/23/22 00:00	06/24/22 15:00
MW-4 12ft	2206424-10	Soil	06/23/22 00:00	06/24/22 15:00
MW-5 6ft	2206424-11	Soil	06/23/22 00:00	06/24/22 15:00
MW-5 13ft	2206424-12	Soil	06/23/22 00:00	06/24/22 15:00
MW-5 16ft	2206424-13	Soil	06/23/22 00:00	06/24/22 15:00
MW-6 6ft	2206424-14	Soil	06/23/22 00:00	06/24/22 15:00
MW-6 12ft	2206424-15	Soil	06/23/22 00:00	06/24/22 15:00
MW-6 16ft	2206424-16	Soil	06/23/22 00:00	06/24/22 15:00
MW-7 6ft	2206424-17	Soil	06/23/22 00:00	06/24/22 15:00
MW-7 12ft	2206424-18	Soil	06/23/22 00:00	06/24/22 15:00
MW-7 16ft	2206424-19	Soil	06/23/22 00:00	06/24/22 15:00
MW-8 6ft	2206424-20	Soil	06/23/22 00:00	06/24/22 15:00
MW-8 12ft	2206424-21	Soil	06/23/22 00:00	06/24/22 15:00
MW-8 16ft	2206424-22	Soil	06/23/22 00:00	06/24/22 15:00
MW-9 6ft	2206424-23	Soil	06/23/22 00:00	06/24/22 15:00
MW-9 12ft	2206424-24	Soil	06/23/22 00:00	06/24/22 15:00
MW-9 16ft	2206424-25	Soil	06/23/22 00:00	06/24/22 15:00
MW-1	2206424-26	Water	06/23/22 00:00	06/24/22 15:00
MW-3	2206424-27	Water	06/23/22 00:00	06/24/22 15:00

Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	2206424-28	Water	06/23/22 00:00	06/24/22 15:00
MW-6	2206424-29	Water	06/23/22 00:00	06/24/22 15:00
MW-7	2206424-30	Water	06/23/22 00:00	06/24/22 15:00
MW-8	2206424-31	Water	06/23/22 00:00	06/24/22 15:00
MW-9	2206424-32	Water	06/23/22 00:00	06/24/22 15:00

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

S<sub>2</sub>

2206424.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 4

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: Erica / Dan

Phone: 303-956-8714

Project Name: Noble - Miller 16-29

Sampler Name: EB/JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN - 915	BTEX - 910	MBS	DRO/ORO	SAR	EC		pH
1	MW-1 6FT	6/23/22		2			X			X			X	X	X				X	
2	MW-1 12FT																			
3	MW-1 16FT																			
4	SB-2 3FT																			
5	SB-2 12FT																			
6	MW-3 7FT																			
7	MW-3 12FT																			
8	MW-3 16FT																			
9	MW-4 6FT																			
10	MW-4 12FT																			

Relinquished by: <i>John Block</i>	Date/Time: <i>6/24/22 0630</i>	Received by: <i>[Signature]</i>	Date/Time: <i>6/24/22 1500</i>	<b>Turn Around Time (Check)</b> Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: <i>60</i> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

# Summit Scientific

S<sub>2</sub>

2206424.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 2 of 4

Client: ~~K.P. Kauffman~~ Fremont Env. Project Manager: ~~Jennifer Galles~~  
 Address: ~~1675 Broadway~~ E-Mail: ~~Jennifer Galles/M Hattel/primarycontractor@marcomllc.net~~ Fremont/Noble Dist. List  
 City/State/Zip: ~~Denver, CO 80202~~ Bill To: See P. 1  
 Phone: ~~303.825.4822~~ Project Name: Noble - Miller 16-24  
 Sampler Name: ~~MH~~ EB, JG Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	NDTEX	TMBS	TPH(GDO)	PAH		
1	MW-5 6 FT	6/23/22		2						X				X	X	X	X	
2	MW-5 13 FT																	
3	MW-5 16 FT																	
4	MW-6 6 FT																	
5	MW-6 12 FT																	
6	MW-6 16 FT																	
7	MW-7 6 FT																	
8	MW-7 12 FT																	
9	MW-7 16 FT																	
10	MW-8 6 FT																	

Relinquished by: <i>G. Black</i>	Date/Time: 6/24/22 0630	Received by: <i>[Signature]</i>	Date/Time: 6/24/22 1500	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day _____ 72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours _____ Standard <input checked="" type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours _____	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: 6.0	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

# Summit Scientific

S<sub>2</sub>

2206424.3

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 3 of 4

Client: ~~K. P. Kauffman~~ Fremont Env. Project Manager: ~~Jennifer Galles~~ P.1  
 Address: ~~1675 Broadway~~ E-Mail: ~~Jennifer.Galles/M.Hattel/primarycontractor@marcomllc.net~~ P.1  
 City/State/Zip: ~~Denver, CO 80202~~ Bill To: See P.1  
 Phone: ~~303.825.4822~~ Project Name: Noble - Miller 16-29  
 Sampler Name: ~~MH~~ EB, JG Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	NIETEX	TMBS	TPA (GDO)	PAHs		
1	MW-8 12FT	6/23/22		2			X			X				X	X	X	X	
2	MW-8 16FT			1														
3	MW-9 6FT			1														
4	MW-9 12FT			1														
5	MW-9 16FT			1														
6	MW-1			4					X									
7	MW-3			1														
8	MW-5			1														
9	MW-6			1														
10	MW-7			1														

Relinquished by: <i>[Signature]</i>	Date/Time: 6/23/22 0630	Received by: <i>[Signature]</i>	Date/Time: 6/24/22 1500	<b>Turn Around Time</b> (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: 6.0 Samples Intact: <input checked="" type="checkbox"/> Yes No	<b>Notes:</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

# Summit Scientific

S<sub>2</sub>

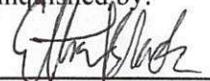
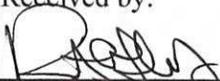
2206424.4

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 4 of 4

Client: ~~K. P. Kauffman~~ Fremont Env. Project Manager: ~~Jennifer Galles~~ P.1  
 Address: ~~1675 Broadway~~ E-Mail: ~~Jennifer Galles/M.Hattel/primarycontractor@marconil.com~~ P.1  
 City/State/Zip: ~~Denver, CO 80202~~ Bill To: P.1  
 Phone: ~~303.825.4822~~ Project Name: Noble - Miller 16-24  
 Sampler Name: ~~MH~~ EB/JG Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other					
1	MW-8	6/23/22		4			X		X								
2	MW-9	↓		4			X		X								
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished by: 	Date/Time: 6/23/22	Received by: 	Date/Time: 6/24/22 1500	<b>Turn Around Time</b> (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: 6.0 Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S<sub>2</sub>

4/4

Sample Receipt Checklist

S2 Work Order# 2206424

Client: Fremont Client Project ID: Noble-miller 16-24

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

Grid for shipping information

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

Temp (°C) 6.0 Thermometer # 1

Table with 5 columns: Yes, No, N/A, Comments (if any). Rows include questions about sample cooling, integrity, volume, custody seals, water samples, COC form, and preservation.

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

Custodian Printed Name

Date/Time 62422



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-1 6ft**  
**2206424-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.0031</b>	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.25</b>	0.050	"	10	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.26</b>	0.10	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>1.1</b>	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	1	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>110</b>	5.0	"	10	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	97.9 %	50-150	"	"	"	"	"	"	
Surrogate: Toluene-d8	92.8 %	50-150	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	116 %	50-150	"	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>56</b>	50	mg/kg	1	BFF0712	06/28/22	06/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-1 6ft**  
**2206424-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/01/22	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	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.00679</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		83.5 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-1 12ft**  
**2206424-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.090</b>	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.051</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.26</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.063</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.021</b>	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.0059</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>7.3</b>	0.50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.4 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		84.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-1 12ft**  
**2206424-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/01/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		40.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		89.7 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-1 16ft**  
**2206424-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		114 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFF0712	06/28/22	06/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

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

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-1 16ft**  
**2206424-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.2 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**SB-2 3ft**  
**2206424-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		88.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**SB-2 3ft**  
**2206424-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		41.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.0 %	40-150		"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**SB-2 12ft**  
**2206424-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		78.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**SB-2 12ft**  
**2206424-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		46.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.9 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-3 7ft**  
**2206424-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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>1.6</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>71</b>	<b>50</b>	<b>mg/kg</b>	<b>1</b>	<b>BFF0712</b>	<b>06/28/22</b>	<b>06/29/22</b>	<b>EPA 8015M</b>	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		72.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-3 7ft**  
**2206424-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.00729</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0142</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0170</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		43.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		93.2 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-3 12ft**  
**2206424-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.52</b>	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.5</b>	0.50	"	100	"	"	"	"	
<b>Xylenes (total)</b>	<b>4.8</b>	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>6.2</b>	0.50	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.22</b>	0.0050	"	1	"	"	"	"	
<b>Naphthalene</b>	<b>0.39</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>980</b>	50	"	100	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.0 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		117 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>660</b>	50	mg/kg	1	BFF0712	06/28/22	06/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		74.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-3 12ft**  
**2206424-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0291</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0714</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0157</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.567</b>	0.0500	"	10	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.822</b>	0.0500	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		81.8 %	40-150		"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-3 16ft**  
**2206424-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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>2.5</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

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

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-3 16ft**  
**2206424-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		43.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		93.7 %	40-150		"	"	"	"	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-4 6ft**  
**2206424-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		115 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		98.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-4 6ft**  
**2206424-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		46.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.5 %	40-150		"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-4 12ft  
2206424-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-4 12ft**  
**2206424-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		41.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		79.1 %	40-150		"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-5 6ft**  
**2206424-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-5 6ft**  
**2206424-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		40.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		84.0 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-5 13ft  
2206424-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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>1.4</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-5 13ft**  
**2206424-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		41.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		73.7 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-5 16ft**  
**2206424-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		113 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		88.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-5 16ft**  
**2206424-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		79.5 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-6 6ft**  
**2206424-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-6 6ft**  
**2206424-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		43.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.9 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-6 12ft**  
**2206424-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		115 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		89.7 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-6 12ft**  
**2206424-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		73.2 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-6 16ft**  
**2206424-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

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

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-6 16ft**  
**2206424-16 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		41.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.8 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-7 6ft**  
**2206424-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-7 6ft**  
**2206424-17 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		82.5 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-7 12ft**  
**2206424-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-7 12ft**  
**2206424-18 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		46.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		82.4 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-7 16ft  
2206424-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-7 16ft**  
**2206424-19 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		50.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		97.2 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-8 6ft**  
**2206424-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0710	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0712	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-8 6ft**  
**2206424-20 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0716	06/28/22	07/02/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		92.2 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-8 12ft**  
**2206424-21 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFF0707	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		98.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.4 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFF0709	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		65.2 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-8 12ft**  
**2206424-21 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0665	06/27/22	06/28/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		51.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.2 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-8 16ft**  
**2206424-22 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFF0707	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		98.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0709	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		71.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-8 16ft**  
**2206424-22 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0665	06/27/22	06/28/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		75.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.1 %	40-150		"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-9 6ft**  
**2206424-23 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0707	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0709	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		78.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-9 6ft**  
**2206424-23 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0665	06/27/22	06/28/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		68.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		64.2 %	40-150		"	"	"	"	

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Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-9 12ft**  
**2206424-24 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0707	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0709	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		68.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-9 12ft**  
**2206424-24 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0665	06/27/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		82.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.5 %	40-150		"	"	"	"	

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Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**MW-9 16ft**  
**2206424-25 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFF0707	06/28/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFF0709	06/28/22	06/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		62.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-9 16ft**  
**2206424-25 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFF0665	06/27/22	06/29/22	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: **06/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		76.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.0 %	40-150		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-1**  
**2206424-26 (Water)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>3200</b>	100		ug/l	100	BFF0692	06/27/22	06/30/22	EPA 8260B	
Toluene	ND	1.0		"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>460</b>	10		"	10	"	"	"	"	
<b>Xylenes (total)</b>	<b>2800</b>	20		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	1	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>200</b>	1.0		"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>86</b>	1.0		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		95.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		21-167		"	"	"	"	

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Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-3**  
**2206424-27 (Water)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>980</b>	10		ug/l	10	BFF0692	06/27/22	06/30/22	EPA 8260B	
Toluene	ND	1.0		"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>190</b>	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1500</b>	20		"	10	"	"	"	"	
<b>Naphthalene</b>	<b>24</b>	1.0		"	1	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>270</b>	10		"	10	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>110</b>	10		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		109 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %		21-167		"	"	"	"	

Summit Scientific

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Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-5**  
**2206424-28 (Water)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>1.1</b>	1.0		ug/l	1	BFF0692	06/27/22	06/30/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4.3</b>	2.0		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>1.9</b>	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		90.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		126 %		21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-6**  
**2206424-29 (Water)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFF0692	06/27/22	07/01/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		114 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-7**  
**2206424-30 (Water)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFF0692	06/27/22	07/01/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		91.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-8**  
**2206424-31 (Water)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFF0692	06/27/22	07/01/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		95.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**MW-9**  
**2206424-32 (Water)**

**Summit Scientific**

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

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFF0692	06/27/22	07/01/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		93.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		21-167		"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BFF0692 - EPA 5030 Water MS

##### Blank (BFF0692-BLK1)

Prepared: 06/27/22 Analyzed: 06/30/22

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>	14.8		"	13.3		111	23-173			
<i>Surrogate: Toluene-d8</i>	13.8		"	13.3		103	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.6		"	13.3		102	21-167			

##### LCS (BFF0692-BS1)

Prepared: 06/27/22 Analyzed: 06/30/22

Benzene	39.2	1.0	ug/l	33.3		118	51-132			
Toluene	36.2	1.0	"	33.3		109	51-138			
Ethylbenzene	39.1	1.0	"	33.3		117	58-146			
m,p-Xylene	70.2	2.0	"	66.7		105	57-144			
o-Xylene	34.2	1.0	"	33.3		103	53-146			
Naphthalene	36.4	1.0	"	33.3		109	70-130			
1,2,4-Trimethylbenzene	35.5	1.0	"	33.3		106	70-130			
1,3,5-Trimethylbenzene	35.5	1.0	"	33.3		106	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.1		"	13.3		105	23-173			
<i>Surrogate: Toluene-d8</i>	14.0		"	13.3		105	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.5		"	13.3		101	21-167			

##### Matrix Spike (BFF0692-MS1)

Source: 2206394-01

Prepared: 06/27/22 Analyzed: 06/30/22

Benzene	45.9	1.0	ug/l	33.3	8.61	112	34-141			
Toluene	38.9	1.0	"	33.3	ND	117	27-151			
Ethylbenzene	41.7	1.0	"	33.3	ND	125	29-160			
m,p-Xylene	74.6	2.0	"	66.7	ND	112	20-166			
o-Xylene	36.2	1.0	"	33.3	ND	109	33-159			
Naphthalene	35.6	1.0	"	33.3	ND	107	70-130			
1,2,4-Trimethylbenzene	38.3	1.0	"	33.3	ND	115	70-130			
1,3,5-Trimethylbenzene	38.3	1.0	"	33.3	ND	115	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.8		"	13.3		96.2	23-173			
<i>Surrogate: Toluene-d8</i>	14.0		"	13.3		105	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.3		"	13.3		99.5	21-167			

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Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

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07/05/22 11:30

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BFF0692 - EPA 5030 Water MS**

**Matrix Spike Dup (BFF0692-MSD1)**

Source: 2206394-01

Prepared: 06/27/22 Analyzed: 06/30/22

Benzene	48.2	1.0	ug/l	33.3	8.61	119	34-141	4.84	30	
Toluene	40.6	1.0	"	33.3	ND	122	27-151	4.28	30	
Ethylbenzene	42.5	1.0	"	33.3	ND	127	29-160	1.73	30	
m,p-Xylene	74.7	2.0	"	66.7	ND	112	20-166	0.0536	30	
o-Xylene	37.1	1.0	"	33.3	ND	111	33-159	2.51	30	
Naphthalene	37.8	1.0	"	33.3	ND	113	70-130	5.75	30	
1,2,4-Trimethylbenzene	38.5	1.0	"	33.3	ND	115	70-130	0.573	30	
1,3,5-Trimethylbenzene	39.1	1.0	"	33.3	ND	117	70-130	2.12	30	
Surrogate: 1,2-Dichloroethane-d4	11.3		"	13.3		85.0	23-173			
Surrogate: Toluene-d8	13.9		"	13.3		104	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.8	21-167			

**Batch BFF0707 - EPA 5030 Soil MS**

**Blank (BFF0707-BLK1)**

Prepared: 06/28/22 Analyzed: 06/29/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0400		97.0	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

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Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BFF0707 - EPA 5030 Soil MS**

**LCS (BFF0707-BS1)**

Prepared: 06/28/22 Analyzed: 06/29/22

Benzene	0.0720	0.0020	mg/kg	0.0750		96.0	70-130			
Toluene	0.0803	0.0050	"	0.0750		107	70-130			
Ethylbenzene	0.0783	0.0050	"	0.0750		104	70-130			
m,p-Xylene	0.165	0.010	"	0.150		110	70-130			
o-Xylene	0.0784	0.0050	"	0.0750		105	70-130			
1,2,4-Trimethylbenzene	0.0753	0.0050	"	0.0750		100	70-130			
1,3,5-Trimethylbenzene	0.0780	0.0050	"	0.0750		104	70-130			
Naphthalene	0.0642	0.0038	"	0.0750		85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0369		"	0.0400		92.2	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150			

**Matrix Spike (BFF0707-MS1)**

Source: 2206420-01

Prepared: 06/28/22 Analyzed: 06/29/22

Benzene	0.0770	0.0020	mg/kg	0.0750	ND	103	70-130			
Toluene	0.0794	0.0050	"	0.0750	ND	106	70-130			
Ethylbenzene	0.0789	0.0050	"	0.0750	ND	105	70-130			
m,p-Xylene	0.168	0.010	"	0.150	ND	112	70-130			
o-Xylene	0.0800	0.0050	"	0.0750	ND	107	70-130			
1,2,4-Trimethylbenzene	0.0792	0.0050	"	0.0750	ND	106	70-130			
1,3,5-Trimethylbenzene	0.0788	0.0050	"	0.0750	ND	105	70-130			
Naphthalene	0.0708	0.0038	"	0.0750	ND	94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

**Matrix Spike Dup (BFF0707-MSD1)**

Source: 2206420-01

Prepared: 06/28/22 Analyzed: 06/29/22

Benzene	0.0743	0.0020	mg/kg	0.0750	ND	99.1	70-130	3.53	30	
Toluene	0.0797	0.0050	"	0.0750	ND	106	70-130	0.339	30	
Ethylbenzene	0.0797	0.0050	"	0.0750	ND	106	70-130	0.983	30	
m,p-Xylene	0.167	0.010	"	0.150	ND	111	70-130	0.322	30	
o-Xylene	0.0808	0.0050	"	0.0750	ND	108	70-130	1.12	30	
1,2,4-Trimethylbenzene	0.0794	0.0050	"	0.0750	ND	106	70-130	0.227	30	
1,3,5-Trimethylbenzene	0.0805	0.0050	"	0.0750	ND	107	70-130	2.15	30	
Naphthalene	0.0742	0.0038	"	0.0750	ND	98.9	70-130	4.72	30	
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BFF0710 - EPA 5030 Soil MS

##### Blank (BFF0710-BLK1)

Prepared: 06/28/22 Analyzed: 06/29/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0435		"	0.0400		109	50-150			
<i>Surrogate: Toluene-d8</i>	0.0407		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0406		"	0.0400		101	50-150			

##### LCS (BFF0710-BS1)

Prepared: 06/28/22 Analyzed: 06/29/22

Benzene	0.0945	0.0020	mg/kg	0.125		75.6	70-130			
Toluene	0.0876	0.0050	"	0.125		70.1	70-130			
Ethylbenzene	0.150	0.0050	"	0.125		120	70-130			
m,p-Xylene	0.264	0.010	"	0.250		106	70-130			
o-Xylene	0.141	0.0050	"	0.125		113	70-130			
1,2,4-Trimethylbenzene	0.140	0.0050	"	0.125		112	70-130			
1,3,5-Trimethylbenzene	0.151	0.0050	"	0.125		121	70-130			
Naphthalene	0.138	0.0038	"	0.125		110	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0430		"	0.0400		107	50-150			
<i>Surrogate: Toluene-d8</i>	0.0429		"	0.0400		107	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0388		"	0.0400		97.0	50-150			

##### Matrix Spike (BFF0710-MS1)

Source: 2206424-03

Prepared: 06/28/22 Analyzed: 06/29/22

Benzene	0.0933	0.0020	mg/kg	0.125	ND	74.7	70-130			
Toluene	0.0879	0.0050	"	0.125	ND	70.3	70-130			
Ethylbenzene	0.149	0.0050	"	0.125	ND	119	70-130			
m,p-Xylene	0.266	0.010	"	0.250	ND	106	70-130			
o-Xylene	0.134	0.0050	"	0.125	ND	107	70-130			
1,2,4-Trimethylbenzene	0.139	0.0050	"	0.125	ND	111	70-130			
1,3,5-Trimethylbenzene	0.138	0.0050	"	0.125	ND	110	70-130			
Naphthalene	0.136	0.0038	"	0.125	ND	109	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0359		"	0.0400		89.7	50-150			
<i>Surrogate: Toluene-d8</i>	0.0409		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0389		"	0.0400		97.4	50-150			

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Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BFF0710 - EPA 5030 Soil MS**

Matrix Spike Dup (BFF0710-MSD1)	Source: 2206424-03			Prepared: 06/28/22 Analyzed: 06/29/22						
Benzene	0.0926	0.0020	mg/kg	0.125	ND	74.1	70-130	0.807	30	
Toluene	0.0885	0.0050	"	0.125	ND	70.8	70-130	0.714	30	
Ethylbenzene	0.151	0.0050	"	0.125	ND	121	70-130	1.18	30	
m,p-Xylene	0.269	0.010	"	0.250	ND	107	70-130	1.12	30	
o-Xylene	0.136	0.0050	"	0.125	ND	109	70-130	1.53	30	
1,2,4-Trimethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130	3.58	30	
1,3,5-Trimethylbenzene	0.147	0.0050	"	0.125	ND	117	70-130	6.22	30	
Naphthalene	0.143	0.0038	"	0.125	ND	115	70-130	5.35	30	
Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0400		95.7	50-150			
Surrogate: Toluene-d8	0.0414		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.7	50-150			

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Project: Noble - Miller 16-29

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/05/22 11:30

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFF0709 - EPA 3550A**

**Blank (BFF0709-BLK1)**

Prepared: 06/28/22 Analyzed: 06/30/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								

**LCS (BFF0709-BS1)**

Prepared: 06/28/22 Analyzed: 06/30/22

C10-C28 (DRO)	451	50	mg/kg	500	90.3	70-130					
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**Matrix Spike (BFF0709-MS1)**

Source: 2206420-01

Prepared: 06/28/22 Analyzed: 06/30/22

C10-C28 (DRO)	435	50	mg/kg	500	4.63	86.1	70-130				
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**Matrix Spike Dup (BFF0709-MSD1)**

Source: 2206420-01

Prepared: 06/28/22 Analyzed: 06/30/22

C10-C28 (DRO)	343	50	mg/kg	500	4.63	67.8	70-130	23.5	20		QM-07
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**Batch BFF0712 - EPA 3550A**

**Blank (BFF0712-BLK1)**

Prepared: 06/28/22 Analyzed: 06/29/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								

**LCS (BFF0712-BS1)**

Prepared: 06/28/22 Analyzed: 06/29/22

C10-C28 (DRO)	431	50	mg/kg	500	86.3	70-130					
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**Matrix Spike (BFF0712-MS1)**

Source: 2206424-03

Prepared: 06/28/22 Analyzed: 06/29/22

C10-C28 (DRO)	451	50	mg/kg	500	18.3	86.5	70-130				
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**Matrix Spike Dup (BFF0712-MSD1)**

Source: 2206424-03

Prepared: 06/28/22 Analyzed: 06/29/22

C10-C28 (DRO)	487	50	mg/kg	500	18.3	93.8	70-130	7.78	20		
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Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFF0665 - EPA 5030 Soil MS**

**Blank (BFF0665-BLK1)**

Prepared: 06/27/22 Analyzed: 06/28/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0431		"	0.0333	129	40-150				
Surrogate: Fluoranthene-d10	0.0264		"	0.0333	79.1	40-150				

**LCS (BFF0665-BS1)**

Prepared: 06/27/22 Analyzed: 06/28/22

Acenaphthene	0.0298	0.00500	mg/kg	0.0333	89.4	31-137				
Anthracene	0.0347	0.00500	"	0.0333	104	30-120				
Benzo (a) anthracene	0.0172	0.00500	"	0.0333	51.7	30-120				
Benzo (a) pyrene	0.0141	0.00500	"	0.0333	42.2	30-120				
Benzo (b) fluoranthene	0.0109	0.00500	"	0.0333	32.8	30-120				
Benzo (k) fluoranthene	0.0253	0.00500	"	0.0333	75.9	30-120				
Chrysene	0.0266	0.00500	"	0.0333	79.7	30-120				
Dibenz (a,h) anthracene	0.0221	0.00500	"	0.0333	66.3	30-120				
Fluoranthene	0.0307	0.00500	"	0.0333	92.2	30-120				
Fluorene	0.0323	0.00500	"	0.0333	96.8	30-120				
Indeno (1,2,3-cd) pyrene	0.0221	0.00500	"	0.0333	66.4	30-120				
Pyrene	0.0451	0.00500	"	0.0333	135	35-142				
1-Methylnaphthalene	0.0270	0.00500	"	0.0333	81.0	35-142				
2-Methylnaphthalene	0.0342	0.00500	"	0.0333	102	35-142				
Surrogate: 2-Methylnaphthalene-d10	0.0215		"	0.0333	64.4	40-150				
Surrogate: Fluoranthene-d10	0.0322		"	0.0333	96.7	40-150				

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFF0665 - EPA 5030 Soil MS**

<b>Matrix Spike (BFF0665-MS1)</b>		<b>Source: 2206424-21</b>			Prepared: 06/27/22 Analyzed: 06/28/22	
Acenaphthene	0.0226	0.00500	mg/kg	0.0333	ND	67.9 31-137
Anthracene	0.0251	0.00500	"	0.0333	ND	75.2 30-120
Benzo (a) anthracene	0.0148	0.00500	"	0.0333	ND	44.3 30-120
Benzo (a) pyrene	0.0102	0.00500	"	0.0333	ND	30.6 30-120
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.1 30-120
Benzo (k) fluoranthene	0.0199	0.00500	"	0.0333	ND	59.8 30-120
Chrysene	0.0340	0.00500	"	0.0333	ND	102 30-120
Dibenz (a,h) anthracene	0.0213	0.00500	"	0.0333	ND	63.9 30-120
Fluoranthene	0.0223	0.00500	"	0.0333	ND	67.0 30-120
Fluorene	0.0245	0.00500	"	0.0333	ND	73.5 30-120
Indeno (1,2,3-cd) pyrene	0.0210	0.00500	"	0.0333	ND	62.9 30-120
Pyrene	0.0316	0.00500	"	0.0333	ND	94.8 35-142
1-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.6 15-130
2-Methylnaphthalene	0.0256	0.00500	"	0.0333	ND	76.8 15-130
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0161</i>		"	<i>0.0333</i>		<i>48.2 40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0237</i>		"	<i>0.0333</i>		<i>71.1 40-150</i>

<b>Matrix Spike Dup (BFF0665-MSD1)</b>		<b>Source: 2206424-21</b>			Prepared: 06/27/22 Analyzed: 06/28/22	
Acenaphthene	0.0241	0.00500	mg/kg	0.0333	ND	72.2 31-137 6.11 30
Anthracene	0.0274	0.00500	"	0.0333	ND	82.2 30-120 8.92 30
Benzo (a) anthracene	0.0175	0.00500	"	0.0333	ND	52.4 30-120 16.9 30
Benzo (a) pyrene	0.0118	0.00500	"	0.0333	ND	35.5 30-120 15.0 30
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0 30-120 11.8 30
Benzo (k) fluoranthene	0.0235	0.00500	"	0.0333	ND	70.5 30-120 16.5 30
Chrysene	0.0340	0.00500	"	0.0333	ND	102 30-120 0.0991 30
Dibenz (a,h) anthracene	0.0218	0.00500	"	0.0333	ND	65.3 30-120 2.16 30
Fluoranthene	0.0240	0.00500	"	0.0333	ND	71.9 30-120 7.09 30
Fluorene	0.0250	0.00500	"	0.0333	ND	74.9 30-120 1.94 30
Indeno (1,2,3-cd) pyrene	0.0235	0.00500	"	0.0333	ND	70.5 30-120 11.4 30
Pyrene	0.0309	0.00500	"	0.0333	ND	92.6 35-142 2.40 30
1-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.7 15-130 0.375 50
2-Methylnaphthalene	0.0307	0.00500	"	0.0333	ND	92.1 15-130 18.2 50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0198</i>		"	<i>0.0333</i>		<i>59.5 40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0255</i>		"	<i>0.0333</i>		<i>76.4 40-150</i>

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFF0716 - EPA 5030 Soil MS**

**Blank (BFF0716-BLK1)**

Prepared: 06/28/22 Analyzed: 07/01/22

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>0.0290</i>		"	<i>0.0333</i>		<i>87.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0435</i>		"	<i>0.0333</i>		<i>130</i>	<i>40-150</i>			

**LCS (BFF0716-BS1)**

Prepared: 06/28/22 Analyzed: 07/01/22

Acenaphthene	0.0340	0.00500	mg/kg	0.0333	102	31-137
Anthracene	0.0294	0.00500	"	0.0333	88.2	30-120
Benzo (a) anthracene	0.0390	0.00500	"	0.0333	117	30-120
Benzo (a) pyrene	0.0351	0.00500	"	0.0333	105	30-120
Benzo (b) fluoranthene	0.0377	0.00500	"	0.0333	113	30-120
Benzo (k) fluoranthene	0.0399	0.00500	"	0.0333	120	30-120
Chrysene	0.0375	0.00500	"	0.0333	112	30-120
Dibenz (a,h) anthracene	0.0345	0.00500	"	0.0333	104	30-120
Fluoranthene	0.0395	0.00500	"	0.0333	118	30-120
Fluorene	0.0358	0.00500	"	0.0333	107	30-120
Indeno (1,2,3-cd) pyrene	0.0269	0.00500	"	0.0333	80.8	30-120
Pyrene	0.0374	0.00500	"	0.0333	112	35-142
1-Methylnaphthalene	0.0149	0.00500	"	0.0333	44.7	35-142
2-Methylnaphthalene	0.0257	0.00500	"	0.0333	77.2	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0172</i>		"	<i>0.0333</i>	<i>51.7</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0406</i>		"	<i>0.0333</i>	<i>122</i>	<i>40-150</i>

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Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

**PAH by EPA Method 8270D SIM - Quality Control**

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

**Batch BFF0716 - EPA 5030 Soil MS**

<b>Matrix Spike (BFF0716-MS1)</b>		<b>Source: 2206424-06</b>			Prepared: 06/28/22		Analyzed: 07/01/22	
Acenaphthene	0.0418	0.00500	mg/kg	0.0333	ND	125	31-137	
Anthracene	0.0276	0.00500	"	0.0333	ND	82.9	30-120	
Benzo (a) anthracene	0.0283	0.00500	"	0.0333	ND	85.0	30-120	
Benzo (a) pyrene	0.0244	0.00500	"	0.0333	ND	73.1	30-120	
Benzo (b) fluoranthene	0.0285	0.00500	"	0.0333	ND	85.4	30-120	
Benzo (k) fluoranthene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	
Chrysene	0.0239	0.00500	"	0.0333	0.00410	59.5	30-120	
Dibenz (a,h) anthracene	0.0314	0.00500	"	0.0333	ND	94.2	30-120	
Fluoranthene	0.0460	0.00500	"	0.0333	ND	138	30-120	QM-07
Fluorene	0.0636	0.00500	"	0.0333	0.00729	169	30-120	QM-07
Indeno (1,2,3-cd) pyrene	0.0337	0.00500	"	0.0333	ND	101	30-120	
Pyrene	0.0494	0.00500	"	0.0333	0.00214	142	35-142	
1-Methylnaphthalene	0.617	0.00500	"	0.0333	0.0142	NR	15-130	QM-07
2-Methylnaphthalene	0.212	0.00500	"	0.0333	0.0170	586	15-130	QM-07
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0530</i>		"	<i>0.0333</i>		<i>159</i>	<i>40-150</i>	<i>QM-07</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0409</i>		"	<i>0.0333</i>		<i>123</i>	<i>40-150</i>	

<b>Matrix Spike Dup (BFF0716-MSD1)</b>		<b>Source: 2206424-06</b>			Prepared: 06/28/22		Analyzed: 07/01/22			
Acenaphthene	0.0305	0.00500	mg/kg	0.0333	ND	91.5	31-137	31.3	30	QM-07
Anthracene	0.0379	0.00500	"	0.0333	ND	114	30-120	31.3	30	QM-07
Benzo (a) anthracene	0.0401	0.00500	"	0.0333	ND	120	30-120	34.4	30	QM-07
Benzo (a) pyrene	0.0301	0.00500	"	0.0333	ND	90.3	30-120	21.0	30	
Benzo (b) fluoranthene	0.0327	0.00500	"	0.0333	ND	98.0	30-120	13.7	30	
Benzo (k) fluoranthene	0.0284	0.00500	"	0.0333	ND	85.3	30-120	20.0	30	
Chrysene	0.0364	0.00500	"	0.0333	0.00410	96.9	30-120	41.4	30	QM-07
Dibenz (a,h) anthracene	0.0404	0.00500	"	0.0333	ND	121	30-120	25.0	30	QM-07
Fluoranthene	0.0377	0.00500	"	0.0333	ND	113	30-120	19.9	30	
Fluorene	0.0375	0.00500	"	0.0333	0.00729	90.7	30-120	51.6	30	QM-07
Indeno (1,2,3-cd) pyrene	0.0528	0.00500	"	0.0333	ND	158	30-120	44.1	30	QM-07
Pyrene	0.0346	0.00500	"	0.0333	0.00214	97.4	35-142	35.2	30	QM-07
1-Methylnaphthalene	0.0484	0.00500	"	0.0333	0.0142	103	15-130	171	50	QM-07
2-Methylnaphthalene	0.0605	0.00500	"	0.0333	0.0170	130	15-130	111	50	QM-07
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0131</i>		"	<i>0.0333</i>		<i>39.2</i>	<i>40-150</i>			<i>QM-07</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0392</i>		"	<i>0.0333</i>		<i>118</i>	<i>40-150</i>			

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Project: Noble - Miller 16-29

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/05/22 11:30

### Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference