

# **FREMONT ENVIRONMENTAL INC.**

July 5, 2022

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

Subject:     **Site Investigation Report**  
Cox PM C8-6  
API # 05-123-14174  
SENW Sec. 8, T4N, R64W  
Weld County, Colorado  
Fremont Project No. C022-018  
Facility # 327111, Remediation # 21024

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Site Investigation Report for the Cox PM C 8-6 site 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. Henahan, P.E.  
Senior Consultant

Enclosure

**SITE INVESTIGATION REPORT**  
**NOBLE ENERGY INC.**  
**COX PM C 8-6**  
**WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-018**  
**FACILITY # 327111, REMEDIATION # 21024**

**Prepared by:**

**Fremont Environmental Inc.**  
**1759 Redwing Lane**  
**Broomfield, CO 80020**  
**(303) 956-8714**

**July 5, 2022**

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**SITE INVESTIGATION REPORT**  
**NOBLE ENERGY INC.**  
**COX PM C 8-6**  
**WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-018**  
**FACILITY # 327111, REMEDIATION # 21024**

**1.0 INTRODUCTION**

The purpose of this document is to present information collected to delineate the extent of petroleum-impacted soil at the Cox PM C 8-6 (Cox) location in Weld County, Colorado. Impacted soil was identified at the Cox tank battery during facility closure activities. A single-day site investigation was completed on May 4, 2022. Seven soil borings were advanced at the site to delineate the magnitude and extent of subsurface soil and groundwater impacts.

**2.0 BACKGROUND INFORMATION**

**2.1 Site Location**

The Cox tank battery is located approximately four miles south of Kersey, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.4 miles east of the intersection of County Road 48 and County Road 51. The location is further described as the SE  $\frac{1}{4}$  of the NW  $\frac{1}{4}$  of Section 8, Township 4N, Range 64W.

**2.2 Site History**

The site consists of the wellhead for the Cox PM C 8-6 natural gas well. The Cox PM C 8-6 well was drilled in 1989 to a depth of approximately 7,164 feet.

Historical soil impacts were discovered beneath the produced water vault during decommissioning activities at the Cox PM C 8-6 tank battery in April 2022. A site investigation to determine the extent of soil impacts was undertaken on May 4, 2022. Groundwater was encountered at that time.

### **3.0 SITE INVESTIGATION ACTIVITIES**

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

A total of seven soil borings were advanced utilizing a Geoprobe rig during the single-day site investigation conducted at the Cox PM C 8-6 on May 4, 2022. One of the seven borings was completed as a flush-mounted, 1-inch diameter, temporary monitoring well. The borings and monitoring well were used to delineate the extent of soil and groundwater impacts at the site. The location of the soil borings and monitoring well are illustrated on the attached figures.

Generally, the subsurface consists of clay that extends to a maximum depth of approximately 14 feet. The clay is underlain by a moist to wet, sandy clay ranging in depth from three to 14 feet and extending to a depth of at least 16 feet. The maximum depth of the borings was 16 feet. Groundwater is present the site at a depth of approximately 13 feet. Geologic cross sections illustrating the soil lithology are presented on Figure 4.

The 1-inch diameter monitoring well was constructed with a 10-foot section of well screen placed at a total depth of approximately 16 feet and completed at the ground surface as a temporary PVC stick-up well. Soil samples from each of the borings were evaluated in the field using a photoionization detector (PID). Logs of the borings and monitoring well 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 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 (MW-1 and SB-5) of the seven borings. The concentrations in these two soil samples were less than the Residential SSLs. The soil chemistry is presented on Figure 5 and summarized in Tables 1 through 3. The laboratory's report is provided in Appendix C.

### **3.2 Groundwater Monitoring**

The groundwater level was measured in monitoring well MW-1 on May 4, 2022 in accordance with the Sampling Plan included in Appendix B. The data is illustrated on Figure 6 and summarized in Tables 4 and 5.

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

Groundwater samples were collected from MW-1 on May 4, 2022. The samples were submitted to Summit Scientific, Inc. in Golden, Colorado for the analyses of organic petroleum constituents benzene, toluene, ethylbenzene, xylenes (BTEX), 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene and naphthalene by EPA Method 8260B,

inorganic petroleum constituents chloride and sulfate by EPA Method 300.0 and total dissolved solids (TDS) by Standard Method 2540C.

The groundwater concentrations in MW-1 were below the respective COGCC Table 915-1 organic standards. However, MW-1 did exceed the COGCC Table 915-1 inorganic standard of 250 mg/L for sulfate ions with a concentration of 367 mg/L.

The groundwater chemistry is shown on Figure 6 and the analytical data are summarized in Tables 4 and 5. A copy of the laboratory's report is presented in Appendix C.

#### **4.0 DISCUSSION**

A site investigation was conducted at the Cox PM C 8-6 location on May 4, 2022 resulting from an historical release discovered beneath the produced water vault during site decommissioning activities. Seven soil borings were advanced, and one was completed as a temporary monitoring well 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 five soil borings/monitoring wells. The groundwater data collected from the temporary monitoring well MW-1 indicates that the groundwater was less than the COGCC Table 915-1 organic constituent standards. The soil and groundwater data are illustrated and summarized in the attached tables and figures.

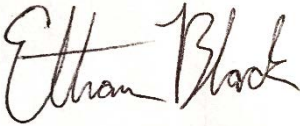
Monitoring well MW-1 will continue to be monitored quarterly in accordance with the groundwater sampling plan outlined in Appendix B. After four consecutive quarters of clean groundwater Noble will request closure under the COGCC Table 915-1 Residential Soil Screening levels.



### **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.**



7/5/22

Date\_\_\_\_\_

\_\_\_\_\_  
Ethan D. Black, P.G.

Geologist

Reviewed by:



7/5/22

Date\_\_\_\_\_

\_\_\_\_\_  
Paul V. Henahan, P.E.

Senior Consultant

## TABLES

TABLE 1  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
COX PM C 8-6, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-018

Sample	Date Sampled	Depth (ft)	Location	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)
N Wall WH 4 Ft	3/18/2022	4	Wellhead wall	<0.002	<0.002	<0.002	0.0135	<0.002	<0.002	<0.00067	<0.200	<25.0	<100
Floor WH 6 Ft	3/18/2022	6	Wellhead Floor	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00067	<0.200	<25.0	<100
Separator 4 Ft	3/21/2022	4	Floor	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00067	<0.200	<25.0	<100
Separator S, 0.5 Ft	3/21/2022	0.5	Wall	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00067	<0.200	<25.0	<100
AST 0.5 Ft	3/21/2022	0.5	Floor	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00067	<0.200	<25.0	<100
PWV S Wall 4 Ft	3/21/2022	4	Wall	<0.002	<0.002	<0.002	<0.002	0.00672	0.00244	<b>0.00553</b>	0.257	<25.0	<100
PWV Floor 6 Ft	3/21/2022	6	Floor	<0.002	<0.002	0.00232	0.0239	<b>0.134</b>	<b>0.0163</b>	<b>0.00553</b>	1.51	63.8	126
MW-1 10ft	5/4/2022	10	Boring	<b>0.012</b>	<0.0050	0.027	5.9	<b>5.1</b>	<b>0.50</b>	<b>0.064</b>	130	220	<50
MW-1 6ft	5/4/2022	6	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
SB-2 12ft	5/4/2022	12	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
SB-2 6ft	5/4/2022	6	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	2.4	<50	<50
SB-3 6ft	5/4/2022	6	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
SB-4 11ft	5/4/2022	11	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	0.80	<50	<50
SB-5 12ft	5/4/2022	12	Boring	<b>0.026</b>	<0.0050	<0.0050	<0.010	<b>0.45</b>	<b>0.0092</b>	<b>0.0041</b>	23	<50	<50
SB-5 9ft	5/4/2022	9	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<b>0.0077</b>	45	310	<50
SB-6 12ft	5/4/2022	12	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
SB-6 6ft	5/4/2022	6	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
SB-7 12ft	5/4/2022	12	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
SB-7 6ft	5/4/2022	6	Boring	<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

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
COX PM C 8-6, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-018

Sample	Date Sampled	Depth (ft)	Location	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)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)
N Wall WH 4 Ft	3/18/2022	4	Wellhead wall	<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
Floor WH 6 Ft	3/18/2022	6	Wellhead Floor	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000525	0.000833	<0.00067	<0.00067	<0.00067	0.000629	<0.00067	>00037	<0.00067
Separator 4 Ft	3/21/2022	4	Floor	<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
Separator S, 0.5 Ft	3/21/2022	0.5	Wall	<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
AST 0.5 Ft	3/21/2022	0.5	Floor	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000897	<0.00067	<0.00067
PWV S Wall 4 Ft	3/21/2022	4	Wall	0.00219	<0.00067	<0.00067	0.000798	<0.00067	0.00125	0.00134	<0.00067	0.00103	0.00401	0.000945	0.00321	<b>0.0158</b>	<b>0.0208</b>
PWV Floor 6 Ft	3/21/2022	6	Floor	0.0097	<0.00067	<0.00067	<0.00067	<0.00067	0.000658	0.00262	0.00123	0.000544	0.019	<0.00067	0.00336	<b>0.0256</b>	<b>0.0205</b>
MW-1 10ft	5/4/2022	10	Boring	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0209	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.426</b>	<b>1.86</b>
MW-1 6ft	5/4/2022	6	Boring	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00596	<0.00500	<0.00500	0.00692	<0.00500	<0.00500	<0.00500	<b>0.170</b>
SB-2 12ft	5/4/2022	12	Boring	<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 6ft	5/4/2022	6	Boring	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-3 6ft	5/4/2022	6	Boring	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-4 11ft	5/4/2022	11	Boring	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00506	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-5 12ft	5/4/2022	12	Boring	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0119	<0.00500	<0.00500	<b>0.0329</b>	<b>0.0360</b>
SB-5 9ft	5/4/2022	9	Boring	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0121	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0658</b>
SB-6 12ft	5/4/2022	12	Boring	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-6 6ft	5/4/2022	6	Boring	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-7 12ft	5/4/2022	12	Boring	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-7 6ft	5/4/2022	6	Boring	<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	180	18	24
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	1.3	0.006	0.019

Bold 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 INORGANIC SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**COX PM C 8-6, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-018**

<b>SAMPLE LOCATION</b>	<b>DEPTH ft</b>	<b>DATE SAMPLED</b>	<b>EC mmhos/cm</b>	<b>pH pH units</b>	<b>SAR units</b>	<b>BORON mg/L</b>
N Wall WH 4 Ft	4	3/18/2022	1.02	8.02	2.27	0.499
Floor WH 6 Ft	6	3/18/2022	0.905	7.89	3.20	0.437
Separator 4 Ft	4	3/21/2022	0.608	7.98	2.50	0.336
Separator S, 0.5 Ft	0.5	3/21/2022	3.57	7.66	5.16	0.259
AST 0.5 Ft	0.5	3/21/2022	0.338	8.06	0.767	<0.0989
PWV S Wall 4 Ft	4	3/21/2022	0.650	7.71	2.05	0.645
PWV Floor 6 Ft	6	3/21/2022	0.695	7.56	2.93	0.826
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

TABLE 4  
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA  
NOBLE ENERGY INC.  
COX PM C 8-6, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-018

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPHTHALENE (µg/L)	1,2,4 TRIMETHYL- BENZENE (µg/L)	1,3,5 TRIMETHYL- BENZENE (µg/L)
MW-1	5/4/2022	1.5	<1.0	<1.0	61	<1.0	1.4	14
Table 915-1 Limits		5	560	700	1,400	140	67	67

TABLE 5  
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA  
NOBLE ENERGY INC.  
COX PM C 8-6, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-018

SAMPLE LOCATION	DATE	TOTAL DISSOLVED SOLIDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)
MW-1	5/4/2022	2050	<b>367</b>	198
Table 915-1 Limits		<1.25 x local background	250	250

Bold face values exceed the COGCC limits

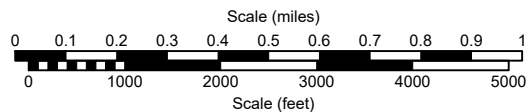
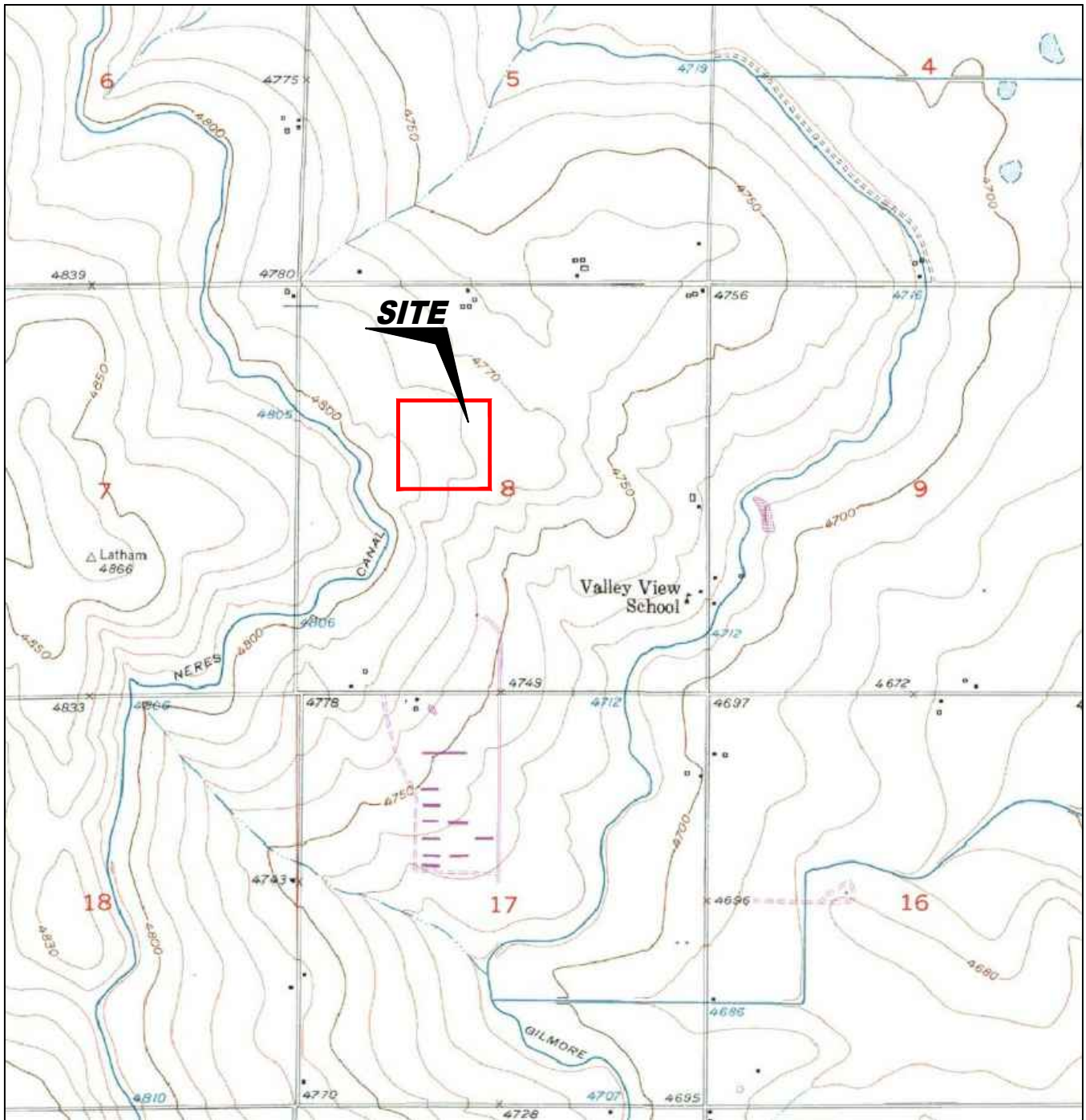
NP - No Free Product

NA - Not Analyzed

NAP - Not Applicable

## **FIGURES**





USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**NOBLE ENERGY INC. ~ COX PMC 8-6**  
 SENW Sec. 8, T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.333729°, -104.577017°

Project #  
**C022-018**

Prepared By

Drawn By  
**TA**

Date  
**7/5/22**

Reviewed by  
**EB**

Filename  
**22018T**






#### LEGEND

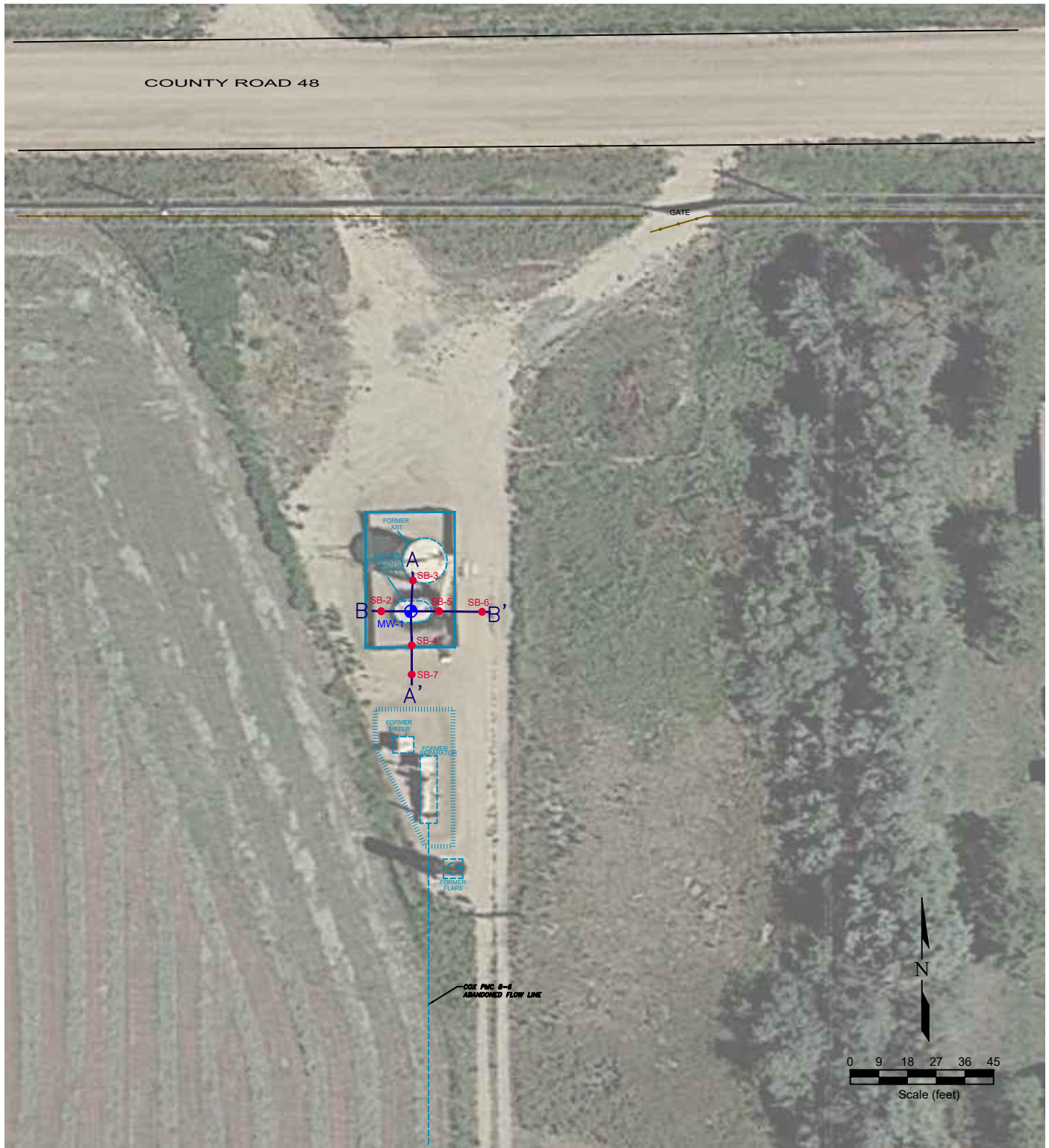
- SOIL BORING
- ⊕ MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- CONTAINMENT WALL
- CONTAINMENT BERM
- FLOW LINE
- FENCE LINE

**Figure 2  
SITE MAP**

**NOBLE ENERGY INC. ~ COX PMC 8-6**  
 SENW Sec. 8, T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.333729°, -104.577017°

Project No. <b>C022-018</b>	API #	Facility # <b>TA</b>	
Date <b>7/5/22</b>	Reviewed By <b>EB</b>	Filename <b>22018QQ</b>	





#### LEGEND

- SOIL BORING
- ⊕ MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- CONTAINMENT WALL
- CONTAINMENT BERM
- FLOW LINE
- FENCE LINE
- B—B' CROSS SECTION CUT LINE

Figure 3


#### CROSS SECTION MAP

**NOBLE ENERGY INC. ~ COX PMC 8-6**

SENW Sec. 8, T4N, R64W, 6th PM

Weld County, Colorado

40.333729°, -104.577017°

Project No. <b>C022-018</b>	API #	Facility # <b>TA</b>	
Date <b>7/5/22</b>	Reviewed By <b>EB</b>	Filename <b>22018QQ</b>	

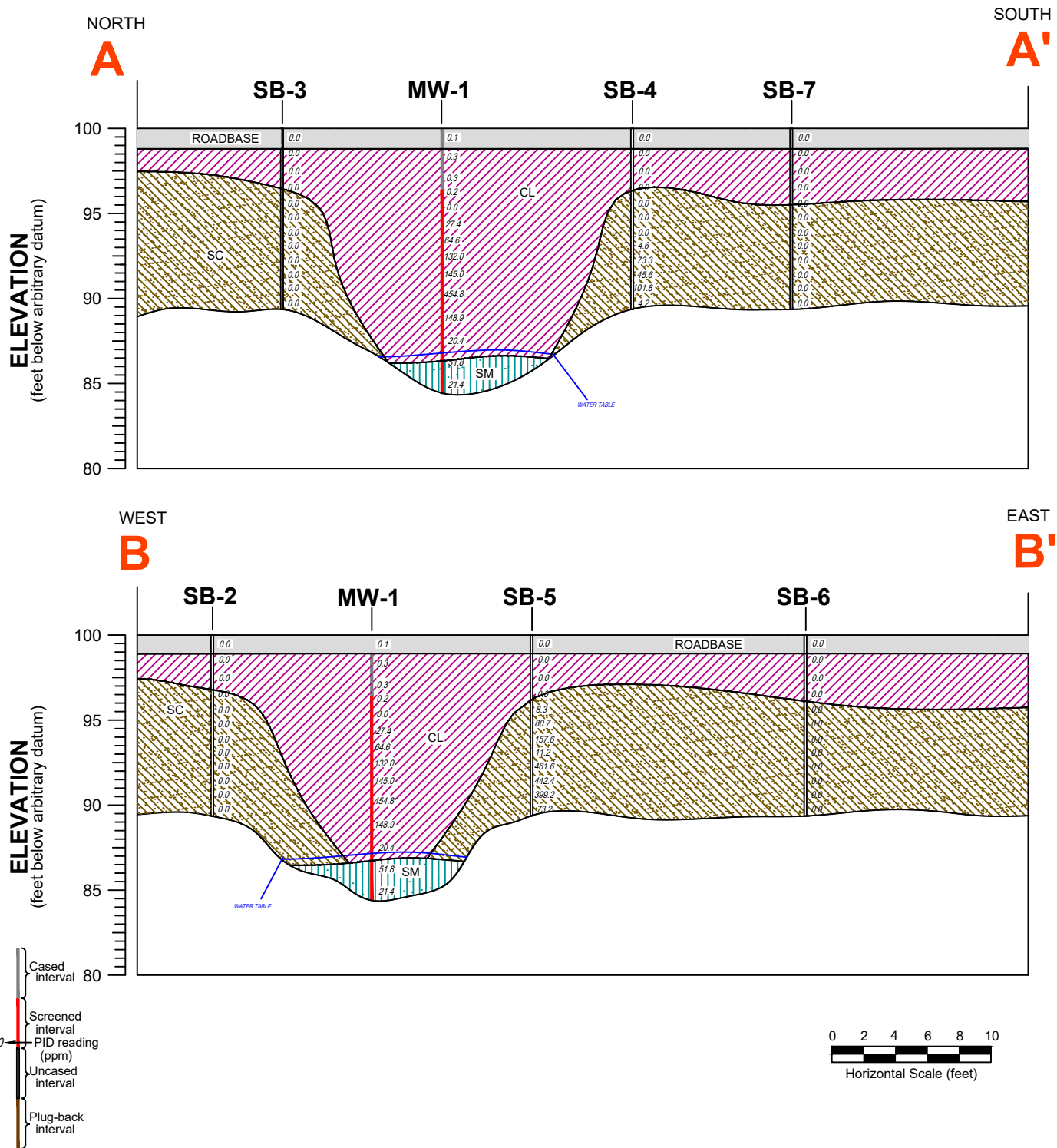


Figure 4  
CROSS SECTION A-A' and B-B'

NOBLE ENERGY INC. ~ COX PMC 8-6  
SENW Sec. 8, T4N, R64W, 6th PM  
Weld County, Colorado  
40.333729°, -104.577017°

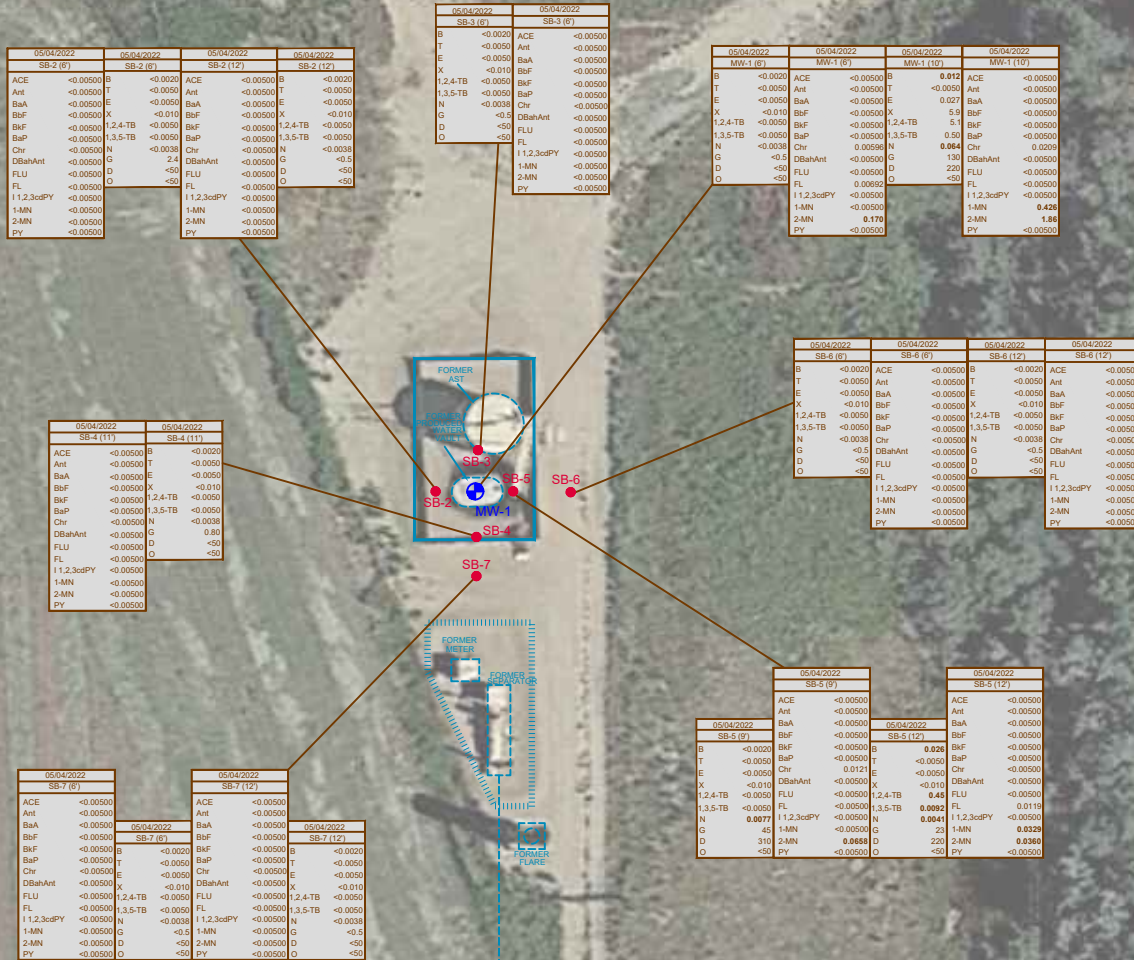
Project No. <b>C022-018</b>	API #	Location # <b>TA</b>
Date <b>7/5/22</b>	Remediation # <b>EB</b>	Filename <b>22018QQ</b>





COUNTY ROAD 48

GATE



# LEGEND

● SOIL BORING WELL	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	CONTAINMENT WALL
● MONITORING WELL			CONTAINMENT BERM
			FLOW LINE
			FENCE LINE

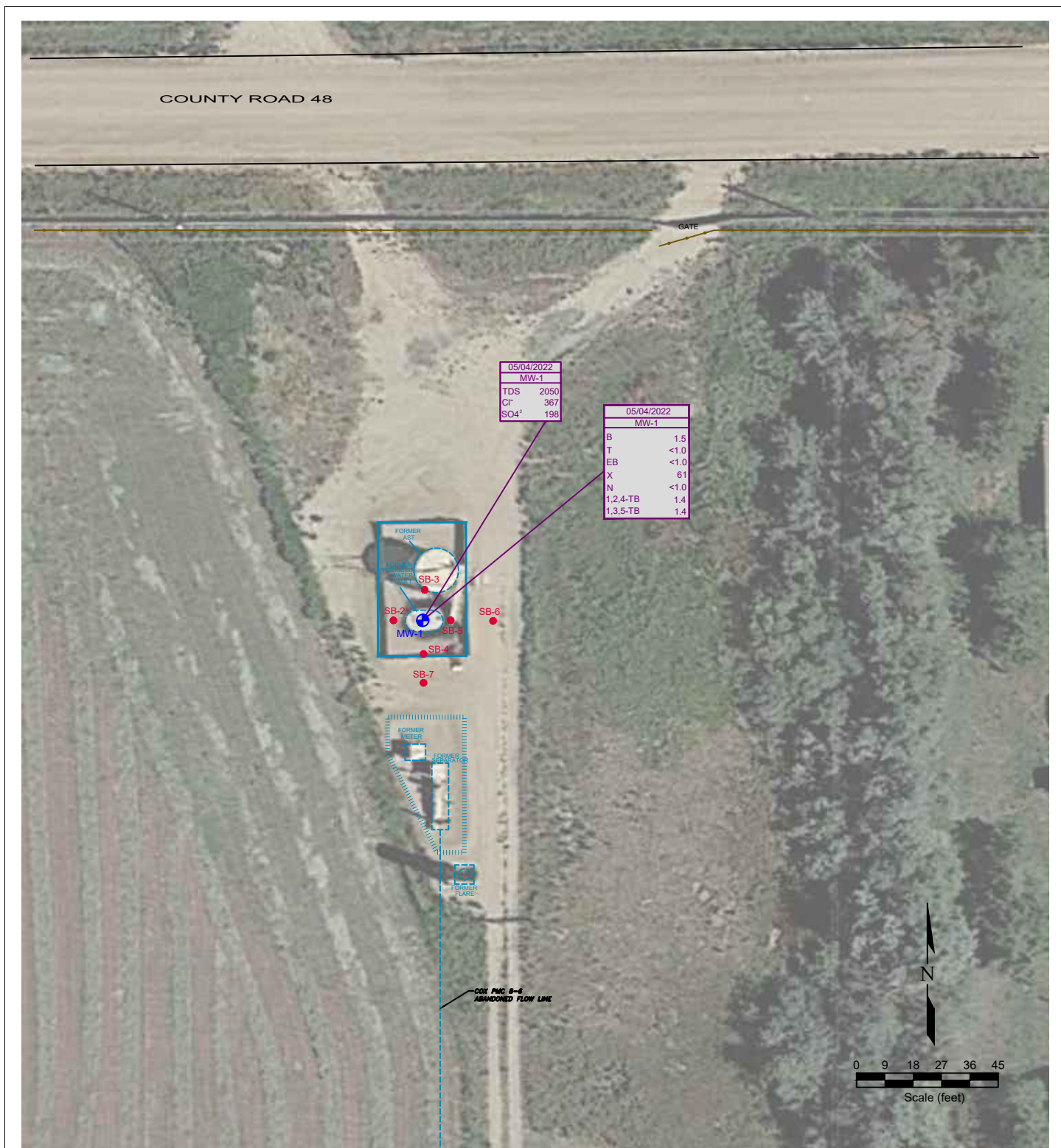
05/04/2022	DATE SAMPLED	05/04/2022	DATE SAMPLED
MW-1 (10')	SAMPLE ID and DEPTH (ft)	MW-1 (10')	SAMPLE ID and DEPTH (ft)
ACE	<0.0050	B	0.012
Ant	<0.0050	E	<0.0050
BaA	<0.0050	X	0.027
BaF	<0.0050	1,2,4-TB	5.1
BaP	<0.0050	1,3,5-TB	0.50
Chr	<0.0050	N	0.064
DBaHant	<0.0050	G	<0.0050
FLU	<0.0050	O	<0.0050
1,2,3-cdPY	<0.0050	D	<0.0050
1-MN	<0.0050	1,2,3-cdPY	<0.0050
2-MN	<0.0050	1-MN	<0.0050
PY	<0.0050	2-MN	<0.0050

05/04/2022	DATE SAMPLED	05/04/2022	DATE SAMPLED
MW-1 (10')	SAMPLE ID and DEPTH (ft)	MW-1 (10')	SAMPLE ID and DEPTH (ft)
ACE	<0.0050	B	0.012
Ant	<0.0050	E	<0.0050
BaA	<0.0050	X	0.027
BaF	<0.0050	1,2,4-TB	5.1
BaP	<0.0050	1,3,5-TB	0.50
Chr	<0.0050	N	0.064
DBaHant	<0.0050	G	<0.0050
FLU	<0.0050	O	<0.0050
1,2,3-cdPY	<0.0050	D	<0.0050
1-MN	<0.0050	1,2,3-cdPY	<0.0050
2-MN	<0.0050	1-MN	<0.0050
PY	<0.0050	2-MN	<0.0050

Figure 5  
SOIL CHEMISTRY MAP  
May 4, 2022  
NOBLE ENERGY INC. ~ COX PMC 8-6  
SENW Sec. 8, T4N, R64W, 6th PM  
Weld County, Colorado  
40.333729°, -104.577017°

Project No. C022-018	API #	Facility # TA	
Date 7/5/22	Reviewed By EB	Filename 22018QQ	



#### LEGEND

- SOIL BORING
- ⊕ MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- CONTAINMENT WALL
- CONTAINMENT BERM
- FLOW LINE
- FENCE LINE

05/04/2022 MW-1	DATE SAMPLED SAMPLE ID
B	1.5
T	<1.0
EB	<1.0
X	61
N	<1.0
1,2,4-TB	1.4
1,3,5-TB	1.4

05/04/2022 MW-1	DATE SAMPLED SAMPLE ID
TDS	2050
Cl <sup>-</sup>	367
SO <sub>4</sub> <sup>2-</sup>	198

05/04/2022 MW-1	DATE SAMPLED SAMPLE ID
TOTAL DISSOLVED SOLIDS (mg/L)	
CHLORIDE ION (mg/L)	
SULFATE ION (mg/L)	

Figure 6  
**GROUNDWATER CHEMISTRY MAP**  
 May 4, 2022  
**NOBLE ENERGY INC. ~ COX PMC 8-6**  
 SENW Sec. 8, T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.333729°, -104.577017°

Project No.  
**C022-018**

API #

Facility #  
**TA**

Date  
**7/5/22**

Reviewed By  
**EB**

Filename  
**22018QQ**

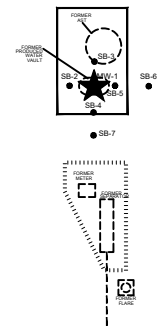


APPENDIX A

**BORING LOGS**

## **BORING/WELL CONSTRUCTION LOG**

Boring/Well Location Sketch Map



Page 1 of 1

Boring/Well No. <b>MW-1</b>		Total Depth <b>16'</b>	Location <b>Noble Energy, Inc. Cox PMC 8-6 SENW Sec 8, T4N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-018 / Noble ~ Cox PMC 8-6</b>			Drilling Contractor/Driller <b>Drill Pro / Glenn, Terrence</b>			
Geologist/Office <b>Ethan Black / Fremont Environmental, Inc.</b>			Approved By			
Drilling Equipment/Method <b>Geoprobe / Direct Push</b>			Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>05/04/2022</b>	
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. <b>1" PVC</b>	Screen: Type <b>SCH40</b> Mtrl. <b>PVC</b> Length <b>5'</b> Dia. <b>1"</b> Slot Size <b>0.01"</b>				
Elevation of: (ft. above datum)	Ground Surface -	Top of Well Casing -	Top of Screen -	Bottom of Screen -	Ground Water Surface/Date Measured <b>13.71</b> <b>05/04/2022</b>	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
			1' Road base				
			Clay: tan to gray, slightly plastic, moist				0.1
							0.3
							0.3
			- color change to tan, oxidized, increasing sand				0.2
5							0.0
			- color change to black				27.4
							64.6
							132.0
10							145.0
							454.8
							148.9
			H <sub>2</sub> O at 13.71'				20.4
15			Silty Sand: tan, very fine to fine sand, elastic, wet				51.8
							21.4
			TD 16'				
20							



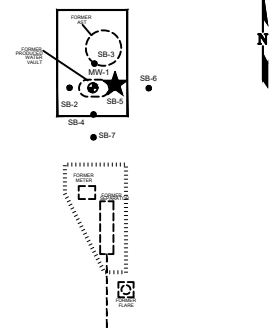
[illegible]

[illegible]

DEPTH (feet)	WELL CONSTRUCTION				LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
					GRAPHIC LOG	VISUAL DESCRIPTION				
5						1' Road base				0.0
						Clay: tan, slightly plastic, moist				0.0
										0.0
										0.0
										0.0
										0.0
										0.0
										0.0
										0.0
										0.0
										0.0
										0.0
10						Sandy Clay: tan, fine to medium sand, slightly elastic, moist				4.6
										73.3
										45.6
										101.8
15						- color change to gray and black				
20						- saturated				
						TD 12'				4.2

## **BORING/WELL CONSTRUCTION LOG**

Boring/Well Location Sketch Map



Page 1 of 1

Boring/Well No. <b>SB-5</b>		Total Depth <b>12'</b>	Location <b>Noble Energy, Inc. Cox PMC 8-6 SENW Sec 8, T4N, R64W, 6th PM Weld County, Colorado</b>		
Project No./Name <b>C022-018 / Noble ~ Cox PMC 8-6</b>			Approved By		
Drilling Contractor/Driller <b>Drill Pro / Glenn, Terrence</b>					
Geologist/Office <b>Ethan Black / Fremont Environmental, Inc.</b>					
Drilling Equipment/Method <b>Geoprobe / Direct Push</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>05/04/2022</b>	
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia. .	Screen: Type .	Mtrl. .	Length .
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				
			1' Road base				
			Clay: brown, slightly plastic, moist				0.0
		CL					0.0
			Sandy Clay: tan, fine to medium sand, moist				0.0
			- color change to black				0.0
5		SC				8.3	
						80.7	
						157.6	
			- color change to gray			11.2	
10						461.6	
			- saturated			442.4	
						399.2	
			TD 12'			73.2	
15							
20							

[illegible]



**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
Chloride and Sulfate Anions	EPA Method – 300.0
Total Dissolved Solids (TDS)	Standard Method 2540C

APPENDIX C

LABORATORY DOCUMENTATION

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 24, 2022

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Cox PMC 8-6  
Work Order #2205048

Enclosed are the results of analyses for samples received by Summit Scientific on 05/04/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 6ft	2205048-01	Soil	05/04/22 00:00	05/04/22 15:00
MW-1 10ft	2205048-02	Soil	05/04/22 00:00	05/04/22 15:00
SB-2 6ft	2205048-03	Soil	05/04/22 00:00	05/04/22 15:00
SB-2 12ft	2205048-04	Soil	05/04/22 00:00	05/04/22 15:00
SB-3 6ft	2205048-05	Soil	05/04/22 00:00	05/04/22 15:00
SB-4 11ft	2205048-06	Soil	05/04/22 00:00	05/04/22 15:00
SB-5 9ft	2205048-07	Soil	05/04/22 00:00	05/04/22 15:00
SB-5 12ft	2205048-08	Soil	05/04/22 00:00	05/04/22 15:00
SB-6 6ft	2205048-09	Soil	05/04/22 00:00	05/04/22 15:00
SB-6 12ft	2205048-10	Soil	05/04/22 00:00	05/04/22 15:00
SB-7 6ft	2205048-11	Soil	05/04/22 00:00	05/04/22 15:00
SB-7 12ft	2205048-12	Soil	05/04/22 00:00	05/04/22 15:00
MW-1	2205048-13	Water	05/04/22 00:00	05/04/22 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>

225048.1

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

Page 1 of 2

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: Jacob

Phone: 303-956-8714

Project Name: Noble - COX PMC 8-6

Sampler Name: Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested										Notes:
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN-915	THGS	GRO	DRO/ORO	SAR	FE	pH	Boron	PAH-915		
1	MW-1 6FT	5/4/22		3			X			X			X	X		X	X	X	X	X	X	X	Cancel SAR, etc, pH, B from all sample
2	MW-1 10FT																						
3	SB-2 6FT																						
4	SB-2 12FT																						
5	SB-3 6FT																						
6	SB-4 11FT																						
7	SB-5 9FT																						
8	SB-5 12FT																						
9	SB-6 6FT																						
10	SB-6 12FT																						

Relinquished by: Ethan Black	Date/Time: 5/4/22 1415	Received by: [Signature]	Date/Time: 5/4/22 1500	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard 48 hours _____
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 0.2 Samples Intact: Yes
Relinquished by:	Date/Time:	Received by:	Date/Time:	No

2225048.2

# Summit Scientific

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 2 of 2

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: Jacob

Phone: 303-956-8714

Project Name: Noble - Cox PMC 8-6Sampler Name: Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested										Notes:
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN-915	<del>PAHs</del>	GRO	DRO/ORO	SAR	TDS, Sol	EC	pH	Boron	
1	SB-7 6FT	5/4/22		3			X			X			X	X	X	X	X	X	X	X		Remove SAR, EC, pH B from all samples
2	SB-7 12FT	I		3			I			X			I	I	X	X	X	X	X	X		
3	MW-1	I		4			I		X				I	I	X	X	X	X	X	X		
4																						No GRO, DRO, ORO • Run Morgan
5																						
6																						
7																						
8																						
9																						
10																						
Relinquished by: <u>Ethan Black</u>		Date/Time: <u>5/4/22 1415</u>		Received by: <u>[Signature]</u>		Date/Time: <u>5/4/22 1500</u>		Turn Around Time (Check)														
Relinquished by:		Date/Time:		Received by:		Date/Time:		Same Day _____ 72 hours														
								____ 24 hours _____														
								Standard _____ 48 hours _____														
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:														
								Temperature Upon Receipt:														
								____ Samples Intact: <u>(Yes)</u>														
								No														

S<sub>2</sub>

2/2  
Sample Receipt Checklist

S2 Work Order# 2205048

Client: Fremont Client Project ID: Noble-Cox PMC 8-6

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

-			
---	--	--	--

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☒ Other ☐Temp (°C) 6.2 Thermometer # 1

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



Custodian Printed Name

5.4.22

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**MW-1 6ft**  
**2205048-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	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: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0290	72.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0436	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0445	111 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.0	104 %	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 - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/24/22 09:32

**MW-1 6ft**  
**2205048-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/10/22	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>0.00596</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.00692</b>	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>0.170</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0219	65.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.2 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**MW-1 10ft**  
**2205048-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.012	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.027	0.0050	"	"	"	"	"	"	
Xylenes (total)	5.9	0.10	"	10	"	"	"	"	
1,2,4-Trimethylbenzene	5.1	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.50	0.0050	"	1	"	"	"	"	
Naphthalene	0.064	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	130	5.0	"	10	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0301	75.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0373	93.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0550	138 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	220	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.9	103 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/24/22 09:32

**MW-1 10ft**  
**2205048-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/07/22	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>0.0209</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.426</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>1.86</b>	0.500	"	100	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0135	40.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.8 %	40-150		"	"	"	"	

Summit Scientific

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PO Box 1289  
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Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-2 6ft**  
**2205048-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	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>2.4</b>	0.50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0295	73.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0462	116 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0435	109 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.1	96.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-2 6ft**  
**2205048-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/07/22	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: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.7 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-2 12ft**  
**2205048-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	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: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0274	68.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0452	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0446	112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.8	103 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-2 12ft**  
**2205048-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/07/22	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: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0170	51.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0159	47.6 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/24/22 09:32

**SB-3 6ft**  
**2205048-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	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: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0304	76.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0433	108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.2	106 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-3 6ft**  
**2205048-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/10/22	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: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0263	78.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0212	63.7 %	40-150		"	"	"	"	

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-4 11ft**  
**2205048-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	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>0.80</b>	0.50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0296	73.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0466	117 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0553	138 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.1	105 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-4 11ft**  
**2205048-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/10/22	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>0.00506</b>	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: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0173	51.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	63.0 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-5 9ft**  
**2205048-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	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	<b>0.0077</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>45</b>	0.50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0321	80.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0379	94.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0842	210 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>310</b>	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.3	98.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-5 9ft**  
**2205048-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/10/22	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>0.0121</b>	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>0.0658</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0228	68.5 %	40-150		"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-5 12ft**  
**2205048-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>0.026</b>	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	05/06/22	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.45</b>	0.0050	"	"	"	"	05/06/22	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.0092</b>	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.0041</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>23</b>	0.50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0322	80.5 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0352	88.1 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0591	148 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	12.6	101 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/24/22 09:32

**SB-5 12ft**  
**2205048-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/07/22	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>0.0119</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0329</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0360</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0170	50.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.3 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/24/22 09:32

**SB-6 6ft**  
**2205048-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	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: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0294	73.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0477	119 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.1	96.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-6 6ft**  
**2205048-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/07/22	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: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.5 %	40-150		"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-6 12ft**  
**2205048-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	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: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0311	77.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0538	134 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.3	98.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-6 12ft**  
**2205048-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/07/22	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: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0172	51.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0155	46.5 %	40-150		"	"	"	"	

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/24/22 09:32

**SB-7 6ft**  
**2205048-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	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: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0277	69.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0458	114 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0444	111 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-7 6ft**  
**2205048-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/07/22	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: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.5 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-7 12ft**  
**2205048-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFE0086	05/05/22	05/06/22	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: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0295	73.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0440	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0447	112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0088	05/05/22	05/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.0	95.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**SB-7 12ft**  
**2205048-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0110	05/06/22	05/07/22	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: **05/04/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	55.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.3 %	40-150		"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**MW-1**  
**2205048-13 (Water)**

**Summit Scientific**

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

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>1.5</b>	1.0	ug/l	1	BFE0105	05/05/22	05/06/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>61</b>	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>1.4</b>	1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>14</b>	1.0	"	"	"	"	"	"	

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	19.0	142 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	13.7	103 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	14.2	107 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>367</b>	12.0	mg/L	200	BFE0169	05/09/22	05/09/22	EPA 300.0	
<b>Sulfate</b>	<b>198</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **05/04/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>2050</b>	10.0	mg/L	1	BFE0191	05/10/22	05/11/22	SM2540C	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

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

### Summit Scientific

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

#### Batch BFE0086 - EPA 5030 Soil MS

##### Blank (BFE0086-BLK1)

Prepared: 05/05/22 Analyzed: 05/06/22

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	0.0303		"	0.0400		75.7	50-150			
Surrogate: Toluene-d8	0.0442		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0437		"	0.0400		109	50-150			

##### LCS (BFE0086-BS1)

Prepared: 05/05/22 Analyzed: 05/06/22

Benzene	0.0820	0.0020	mg/kg	0.0750		109	70-130			
Toluene	0.0795	0.0050	"	0.0750		106	70-130			
Ethylbenzene	0.0916	0.0050	"	0.0750		122	70-130			
m,p-Xylene	0.181	0.010	"	0.150		121	70-130			
o-Xylene	0.0884	0.0050	"	0.0750		118	70-130			
1,2,4-Trimethylbenzene	0.0843	0.0050	"	0.0750		112	70-130			
1,3,5-Trimethylbenzene	0.0819	0.0050	"	0.0750		109	70-130			
Naphthalene	0.0868	0.0038	"	0.0750		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0304		"	0.0400		76.0	50-150			
Surrogate: Toluene-d8	0.0452		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0438		"	0.0400		109	50-150			

##### Matrix Spike (BFE0086-MS1)

Source: 2205022-01

Prepared: 05/05/22 Analyzed: 05/06/22

Benzene	0.0774	0.0020	mg/kg	0.0750	ND	103	70-130			
Toluene	0.0742	0.0050	"	0.0750	ND	99.0	70-130			
Ethylbenzene	0.0902	0.0050	"	0.0750	ND	120	70-130			
m,p-Xylene	0.178	0.010	"	0.150	ND	119	70-130			
o-Xylene	0.0857	0.0050	"	0.0750	ND	114	70-130			
1,2,4-Trimethylbenzene	0.0788	0.0050	"	0.0750	ND	105	70-130			
1,3,5-Trimethylbenzene	0.0782	0.0050	"	0.0750	ND	104	70-130			
Naphthalene	0.0785	0.0038	"	0.0750	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0299		"	0.0400		74.7	50-150			
Surrogate: Toluene-d8	0.0451		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0431		"	0.0400		108	50-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

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

### Summit Scientific

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

#### Batch BFE0086 - EPA 5030 Soil MS

##### Matrix Spike Dup (BFE0086-MSD1)

Source: 2205022-01

Prepared: 05/05/22 Analyzed: 05/06/22

Benzene	0.0787	0.0020	mg/kg	0.0750	ND	105	70-130	1.69	30	
Toluene	0.0756	0.0050	"	0.0750	ND	101	70-130	1.84	30	
Ethylbenzene	0.0882	0.0050	"	0.0750	ND	118	70-130	2.22	30	
m,p-Xylene	0.175	0.010	"	0.150	ND	117	70-130	1.80	30	
o-Xylene	0.0844	0.0050	"	0.0750	ND	113	70-130	1.59	30	
1,2,4-Trimethylbenzene	0.0754	0.0050	"	0.0750	ND	101	70-130	4.36	30	
1,3,5-Trimethylbenzene	0.0761	0.0050	"	0.0750	ND	102	70-130	2.64	30	
Naphthalene	0.0750	0.0038	"	0.0750	ND	100	70-130	4.65	30	
Surrogate: 1,2-Dichloroethane-d4	0.0291		"	0.0400		72.8	50-150			
Surrogate: Toluene-d8	0.0455		"	0.0400		114	50-150			
Surrogate: 4-Bromofluorobenzene	0.0434		"	0.0400		108	50-150			

#### Batch BFE0105 - EPA 5030 Water MS

##### Blank (BFE0105-BLK1)

Prepared: 05/05/22 Analyzed: 05/06/22

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	"							
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		96.4	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.7	21-167			

##### LCS (BFE0105-BS1)

Prepared: 05/05/22 Analyzed: 05/06/22

Benzene	47.1	1.0	ug/l	50.0		94.2	51-132			
Toluene	46.4	1.0	"	50.0		92.7	51-138			
Ethylbenzene	45.5	1.0	"	50.0		91.0	58-146			
m,p-Xylene	89.3	2.0	"	100		89.3	57-144			
o-Xylene	47.7	1.0	"	50.0		95.4	53-146			
Naphthalene	48.8	1.0	"	50.0		97.5	70-130			
1,2,4-Trimethylbenzene	44.4	1.0	"	50.0		88.7	70-130			
1,3,5-Trimethylbenzene	45.9	1.0	"	50.0		91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		103	21-167			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

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

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

**Batch BFE0105 - EPA 5030 Water MS**

**Matrix Spike (BFE0105-MS1)**

Source: 2204367-01

Prepared: 05/05/22 Analyzed: 05/06/22

Benzene	48.9	1.0	ug/l	50.0	ND	97.9	34-141			
Toluene	48.3	1.0	"	50.0	ND	96.6	27-151			
Ethylbenzene	47.8	1.0	"	50.0	ND	95.5	29-160			
m,p-Xylene	94.4	2.0	"	100	ND	94.4	20-166			
o-Xylene	50.1	1.0	"	50.0	ND	100	33-159			
Naphthalene	51.2	1.0	"	50.0	ND	102	70-130			
1,2,4-Trimethylbenzene	47.9	1.0	"	50.0	ND	95.9	70-130			
1,3,5-Trimethylbenzene	50.1	1.0	"	50.0	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		96.3	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.4	21-167			

**Matrix Spike Dup (BFE0105-MSD1)**

Source: 2204367-01

Prepared: 05/05/22 Analyzed: 05/06/22

Benzene	48.5	1.0	ug/l	50.0	ND	97.0	34-141	0.883	30	
Toluene	48.0	1.0	"	50.0	ND	96.1	27-151	0.581	30	
Ethylbenzene	48.5	1.0	"	50.0	ND	97.0	29-160	1.50	30	
m,p-Xylene	95.7	2.0	"	100	ND	95.7	20-166	1.36	30	
o-Xylene	50.3	1.0	"	50.0	ND	101	33-159	0.518	30	
Naphthalene	50.4	1.0	"	50.0	ND	101	70-130	1.56	30	
1,2,4-Trimethylbenzene	48.2	1.0	"	50.0	ND	96.4	70-130	0.541	30	
1,3,5-Trimethylbenzene	50.2	1.0	"	50.0	ND	100	70-130	0.0998	30	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.0	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.5	21-167			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

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

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

**Batch BFE0088 - EPA 3550A**

**Blank (BFE0088-BLK1)**

Prepared: 05/05/22 Analyzed: 05/06/22

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

**LCS (BFE0088-BS1)**

Prepared: 05/05/22 Analyzed: 05/06/22

C10-C28 (DRO)	430	50	mg/kg	500	85.9	70-130
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**Matrix Spike (BFE0088-MS1)**

Source: 2205022-01

Prepared: 05/05/22 Analyzed: 05/06/22

C10-C28 (DRO)	410	50	mg/kg	500	9.95	80.0	70-130
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**Matrix Spike Dup (BFE0088-MSD1)**

Source: 2205022-01

Prepared: 05/05/22 Analyzed: 05/06/22

C10-C28 (DRO)	398	50	mg/kg	500	9.95	77.5	70-130	3.09	20
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PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

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

### Summit Scientific

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

#### Batch BFE0110 - EPA 5030 Soil MS

##### Blank (BFE0110-BLK1)

Prepared: 05/06/22 Analyzed: 05/07/22

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	0.0326		"	0.0333		97.7	40-150			
Surrogate: Fluoranthene-d10	0.0253		"	0.0333		76.0	40-150			

##### LCS (BFE0110-BS1)

Prepared: 05/06/22 Analyzed: 05/07/22

Acenaphthene	0.0287	0.00500	mg/kg	0.0333		86.1	31-137			
Anthracene	0.0287	0.00500	"	0.0333		86.1	30-120			
Benzo (a) anthracene	0.0276	0.00500	"	0.0333		82.8	30-120			
Benzo (a) pyrene	0.0310	0.00500	"	0.0333		92.9	30-120			
Benzo (b) fluoranthene	0.0322	0.00500	"	0.0333		96.7	30-120			
Benzo (k) fluoranthene	0.0343	0.00500	"	0.0333		103	30-120			
Chrysene	0.0286	0.00500	"	0.0333		85.7	30-120			
Dibenz (a,h) anthracene	0.0276	0.00500	"	0.0333		82.9	30-120			
Fluoranthene	0.0265	0.00500	"	0.0333		79.6	30-120			
Fluorene	0.0287	0.00500	"	0.0333		86.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0277	0.00500	"	0.0333		83.2	30-120			
Pyrene	0.0333	0.00500	"	0.0333		99.9	35-142			
1-Methylnaphthalene	0.0319	0.00500	"	0.0333		95.8	35-142			
2-Methylnaphthalene	0.0285	0.00500	"	0.0333		85.6	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0252		"	0.0333		75.7	40-150			
Surrogate: Fluoranthene-d10	0.0257		"	0.0333		77.1	40-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

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

### Summit Scientific

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

#### Batch BFE0110 - EPA 5030 Soil MS

##### Matrix Spike (BFE0110-MS1)

Source: 2204434-01

Prepared: 05/06/22 Analyzed: 05/07/22

Acenaphthene	0.0173	0.00500	mg/kg	0.0333	ND	51.8	31-137		
Anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120		
Benzo (a) anthracene	0.0181	0.00500	"	0.0333	ND	54.3	30-120		
Benzo (a) pyrene	0.0193	0.00500	"	0.0333	ND	57.8	30-120		
Benzo (b) fluoranthene	0.0206	0.00500	"	0.0333	ND	61.7	30-120		
Benzo (k) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	30-120		
Chrysene	0.0174	0.00500	"	0.0333	ND	52.3	30-120		
Dibenz (a,h) anthracene	0.0154	0.00500	"	0.0333	ND	46.3	30-120		
Fluoranthene	0.0172	0.00500	"	0.0333	ND	51.6	30-120		
Fluorene	0.0175	0.00500	"	0.0333	ND	52.5	30-120		
Indeno (1,2,3-cd) pyrene	0.0212	0.00500	"	0.0333	ND	63.6	30-120		
Pyrene	0.0214	0.00500	"	0.0333	ND	64.3	35-142		
1-Methylnaphthalene	0.0195	0.00500	"	0.0333	ND	58.4	15-130		
2-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0170		"	0.0333		51.1	40-150		
Surrogate: Fluoranthene-d10	0.0170		"	0.0333		51.1	40-150		

##### Matrix Spike Dup (BFE0110-MSD1)

Source: 2204434-01

Prepared: 05/06/22 Analyzed: 05/07/22

Acenaphthene	0.0147	0.00500	mg/kg	0.0333	ND	44.2	31-137	15.9	30
Anthracene	0.0146	0.00500	"	0.0333	ND	43.7	30-120	18.7	30
Benzo (a) anthracene	0.0143	0.00500	"	0.0333	ND	42.8	30-120	23.8	30
Benzo (a) pyrene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	24.9	30
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.3	30-120	26.5	30
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.4	30-120	26.2	30
Chrysene	0.0138	0.00500	"	0.0333	ND	41.3	30-120	23.4	30
Dibenz (a,h) anthracene	0.0120	0.00500	"	0.0333	ND	35.9	30-120	25.3	30
Fluoranthene	0.0137	0.00500	"	0.0333	ND	41.2	30-120	22.5	30
Fluorene	0.0146	0.00500	"	0.0333	ND	43.8	30-120	18.1	30
Indeno (1,2,3-cd) pyrene	0.0168	0.00500	"	0.0333	ND	50.3	30-120	23.3	30
Pyrene	0.0166	0.00500	"	0.0333	ND	49.7	35-142	25.5	30
1-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.0	15-130	15.6	50
2-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.8	15-130	12.5	50
Surrogate: 2-Methylnaphthalene-d10	0.0148		"	0.0333		44.3	40-150		
Surrogate: Fluoranthene-d10	0.0138		"	0.0333		41.5	40-150		

Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

### Anions by EPA Method 300.0 - Quality Control

#### Summit Scientific

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

#### Batch BFE0169 - General Preparation

##### Blank (BFE0169-BLK1)

Prepared & Analyzed: 05/09/22

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

##### LCS (BFE0169-BS1)

Prepared & Analyzed: 05/09/22

Chloride	2.71	0.0600	mg/L	3.00	90.3	90-110
Sulfate	14.5	0.300	"	15.0	96.7	90-110

##### Duplicate (BFE0169-DUP1)

Source: 2205048-13

Prepared & Analyzed: 05/09/22

Chloride	421	12.0	mg/L	367	13.5	20
Sulfate	227	60.0	"	198	13.5	20

##### Matrix Spike (BFE0169-MS1)

Source: 2205048-13

Prepared & Analyzed: 05/09/22

Chloride	1010	12.0	mg/L	600	367	108	80-120
Sulfate	3240	60.0	"	3000	198	101	80-120

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

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

**Batch BFE0191 - General Preparation**

**Blank (BFE0191-BLK1)**

Prepared: 05/10/22 Analyzed: 05/11/22

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (BFE0191-DUP1)**

Source: 2205048-13

Prepared: 05/10/22 Analyzed: 05/11/22

Total Dissolved Solids 2020 10.0 mg/L 2050 1.28 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Cox PMC 8-6

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/22 09:32

### Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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