

FREMONT ENVIRONMENTAL INC.

July 5, 2022

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

Subject: **Site Investigation Report**
 UPRC 27-9F Tank Battery
 API # 05-123-15377
 NESE Sec 27, T4N, R66W
 Weld County, Colorado
 Fremont Project No. C022-029
 Location #327969, Remediation # 18876

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Site Investigation Report for the UPRC 27-9F tank battery site in Weld County, Colorado. The enclosed report describes site investigation and sampling efforts to assess soil and water 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.
UPRC 27-9F TANK BATTERY
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025
LOCATION #327969, REMEDIATION #18876

Prepared by:

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

July 5, 2022

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 BACKGROUND INFORMATION	1
2.1 Site Location	1
2.2 Site History	1
3.0 SITE INVESTIGATION ACTIVITIES.....	2
3.1 Soil Borings/Monitoring Wells.....	2
3.2 Groundwater Monitoring	Error! Bookmark not defined.
3.3 Groundwater Sampling and Analysis.....	3
4.0 DISCUSSION	4
5.0 REMARKS.....	5

Tables

Table 1:	Summary of Volatile Organic Soil Chemistry Data
Table 2:	Summary of Polycyclic Aromatic Hydrocarbon Soil Chemistry Data
Table 3:	Summary of Inorganic Soil Chemistry Data
Table 4:	Summary of Metals Soil Chemistry Data
Table 5:	Summary of Organic Water Chemistry and Elevation Data
Table 6:	Summary of Inorganic Water Chemistry Data

Figures

Figure 1:	Site Location Map
Figure 2:	Site Map
Figure 3 :	Soil and Groundwater Chemistry Map

Appendices

Appendix A:	Boring Logs
Appendix B:	Laboratory Documentation

SITE INVESTIGATION REPORT
NOBLE ENERGY INC.
UPRC 27-9F TANK BATTERY
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025
LOCATION #327969, REMEDIATION #18876

1.0 INTRODUCTION

The purpose of this document is to present soil and groundwater quality data collected during a site investigation at the UPRC 27-9F tank battery site in Weld County, Colorado. Impacted soil and groundwater were identified at the former facility during abandonment activities. Prior to the project's transition to Fremont Environmental, Inc. (Fremont), Eagle Environmental Consulting, Inc. (Eagle) collected 10 soil samples at the former UPRC 27-9F facility on January 24, 2022 during facility abandonment. Soil impacts exceeding the COGCC Table 915-1 concentration standards necessitated further delineation of the magnitude and extent of these subsurface impacts within the vadose and saturated zones. The site investigation was continued by Fremont between March 30, 2022.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The UPRC 27-9F site is located approximately one mile east of Gilcrest, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.5 miles north of the intersection of County Road 33 and County Road 40. The location is further described as the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 27, Township 4N, Range 66W.

2.2 Site History

The site consists of the former tank battery for the UPRC 27-9F natural gas well. The UPRC 27-9F well was drilled in 1992 to a depth of approximately 7,378 feet. Soil impacts

were identified at the former tank battery location following the facility's abandonment. As a result, a site investigation was undertaken to determine the magnitude and extent of impacts at the former UPRC 27-9F tank battery location.

3.0 SITE INVESTIGATION ACTIVITIES

3.1 Soil Borings/Monitoring Wells

As noted above, 10 soil samples were collected by Eagle at the former UPRC 27-9F facility prior to the transfer of site investigation responsibilities to Fremont. Impacts exceeding the COGCC Table 915-1 soil standards were observed in four of the 10 samples collected by Eagle prompting Fremont to advance six additional borings to gain further definition of soil impacts within the unsaturated and saturated zones at the former tank battery. One of the soil borings was completed as a monitoring well. The borings and wells illustrated on Figure 2 were used to determine the magnitude and extent of soil and groundwater impacts at the site.

Generally, the subsurface consists of silty sand or sandy silt to a depth of approximately 16 feet. The maximum depth of the borings was 16 feet. Groundwater is present across the site at a depth of approximately six feet. Geologic cross sections are presented on Figure 4.

One of the six soil borings advanced on site was completed as a one-inch PVC monitoring wells. The monitoring well was constructed with a ten-foot section of well screen placed at a total depth of approximately 16 feet and completed at the ground surface with a stickup completion. Soil samples from each of the borings were evaluated in the field using a photoionization detector (PID). Logs of the borings advanced by Fremont are presented in Appendix A.

Soil samples were collected from each of the borings and sent to Origins Laboratory, Inc. and Summit Scientific, Inc. in Golden, Colorado for the analyses of benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, 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 (PAHs) by EPA method 8270D, Specific Conductance (EC) by EPA Method 120.1 saturated paste extraction, saturated paste extraction of soluble nutrients by EPA method 6020/USDA60 6(2) for calculated analysis of Sodium Absorption Ratio (SAR), pH by saturated paste extraction APHA/ASTM/EPA methods, Total Metals by EPA method 6020B, and Hexavalent Chromium by EPA method 7196.

Soil impacts were observed above the COGCC Table 915-1 standards for organic petroleum constituents in four of the six soil borings at various depths. One boring was analyzed for metals and exceeded the COGCC Table 915-1 concentration standard for arsenic. A background sample was collected at a depth of three feet in native soil adjacent to the former UPRC 27-9F tank battery; arsenic exceeded the Table 915-1 standard in this sample. Since elevated levels of arsenic were observed in both the onsite sample and the background sample, these elevated concentrations can be attributed to native soil conditions. The soil chemistry is presented on Figure 5 and summarized in Tables 1 through 4. The laboratory reports are provided in Appendix C.

3.2 Groundwater Sampling and Analysis

A groundwater sample was collected from the monitoring well on March 30, 2022. The groundwater sample was submitted to Origins Laboratory, Inc. in Denver, Colorado for analyses of BTEX, naphthalene, 1,2,4 and 1,3,5 trimethylbenzene (TMB) by EPA Method 8260B.

The benzene concentration in MW-1 (17.0 µg/L) exceeded the COGCC Table 915-1 standard of 5 ug/L. The groundwater chemistry data are shown on Figure 3. The groundwater analytical data are summarized in Table 5 and a copy of the laboratory's report is presented in Appendix C.

4.0 DISCUSSION

A site investigation at the UPRC 27-9F tank battery was initiated by Eagle in January 2022 and completed by Fremont in March 2022 in response to an historical release. Six soil borings were advanced with one boring completed as a monitoring well on site to delineate the magnitude and extent of soil and groundwater impacts.

Soil impacts exceeding the COGCC Table 915-1 standards were observed in four of the six soil borings as summarized in Tables 1 through 4 and Figure 5. These impacts were present at varying depths in each boring between 0.5 feet and 10 feet.

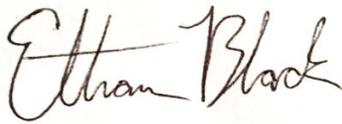
Further, the benzene concentration in groundwater sample from monitoring well MW-1 exceeded the COGCC Table 915-1 standard. These data are summarized in Table 5 and illustrated on Figure 7.

Remedial actions for this site are currently being evaluated. Excavation of soil impacts within the vadose zone is recommended to gain clean closure once dissolved phase impacts in the groundwater have attenuated. Groundwater will be sampled at the UPRC 27-9F location on a quarterly basis to evaluate the dissolved phase petroleum concentrations relative to COGCC's Table 915-1 requirements. Additional monitoring wells will be advanced to achieve POC in all directions at the UPRC 27-9F location.

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 Black, P.G.

Geologist

Reviewed by:



7/5/22

Date_____

Paul V. Henehan, P.E.

Senior Consultant

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC 27-9F
FREMONT PROJECT NO. C022-025

Sample	Depth (ft)	Date Sampled	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)
MW-1 8 Ft	8	3/30/2022	<0.0020	<0.0020	0.0186	<0.0020	0.0384	<0.0020	0.0162	7.18	<25.0	<100
MW-1 12 Ft	12	3/30/2022	<0.0020	<0.0020	0.0695	0.00828	0.061	<0.0020	0.0245	18.5	53.9	<100
MW-1 13 Ft	13	3/30/2022	<0.0020	<0.0020	0.074	<0.0020	0.0442	<0.0020	0.0303	70.0	40.5	<100
MW-1 15 Ft	15	3/30/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0038	<0.200	<25.0	<100
SB-2 8 Ft	8	3/30/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0038	<0.200	<25.0	<100
SB-3 4 Ft	4	3/30/2022	<0.0020	<0.0020	0.0759	<0.0020	3.01	2.58	0.0514	256	25.1	<100
SB-3 6 Ft	6	3/30/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0038	<0.200	<25.0	<100
SB-4 4 Ft	4	3/30/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0038	<0.200	<25.0	<100
SB-5 8 Ft	8	3/30/2022	<0.0020	<0.0020	<0.0020	<0.0020	0.00248	<0.0020	<0.0038	0.334	<25.0	<100
SB-5 12 Ft	12	3/30/2022	<0.0020	<0.0020	0.0168	<0.0020	0.02	<0.0020	0.012	3.73	<25.0	<100
SB-6 8 Ft	8	3/30/2022	<0.0020	<0.0020	<0.0020	<0.0020	0.00742	<0.0020	0.00682	2.74	<25.0	<100
BG-1 3 Ft	3	3/30/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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.
UPRC 27-9F
FREMONT PROJECT NO. C022-025

Sample	Depth (ft)	Date Sampled	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)
MW-1 12 Ft	12	3/30/2022	0.00561	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00832	<0.00067	0.039	0.0999	<0.00067
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

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 METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC 27-9F
FREMONT PROJECT NO. C022-025**

Sample	Depth (ft)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium (mg/kg)
MW-1 12 Ft	12	3/30/2022	3.41	99.1	0.055	10.3	9.54	11.1	0.4	0.0191	43.5	<0.244
BG-1 3 Ft	3	3/30/2022	1.14	47.4	0.285	8.32	10.8	4.81	<0.103	0.0903	36.5	<1.22
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	3100	400	1500	390	390	23000	0.3
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	46	14	26	0.26	0.8	370	0.00067

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 applicable

TABLE 4
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC 27-9F
FREMONT PROJECT NO. C022-025

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
BG-1 3 Ft	3/30/2022	3	0.498	7.24	2.64	0.302
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

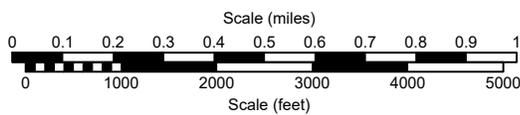
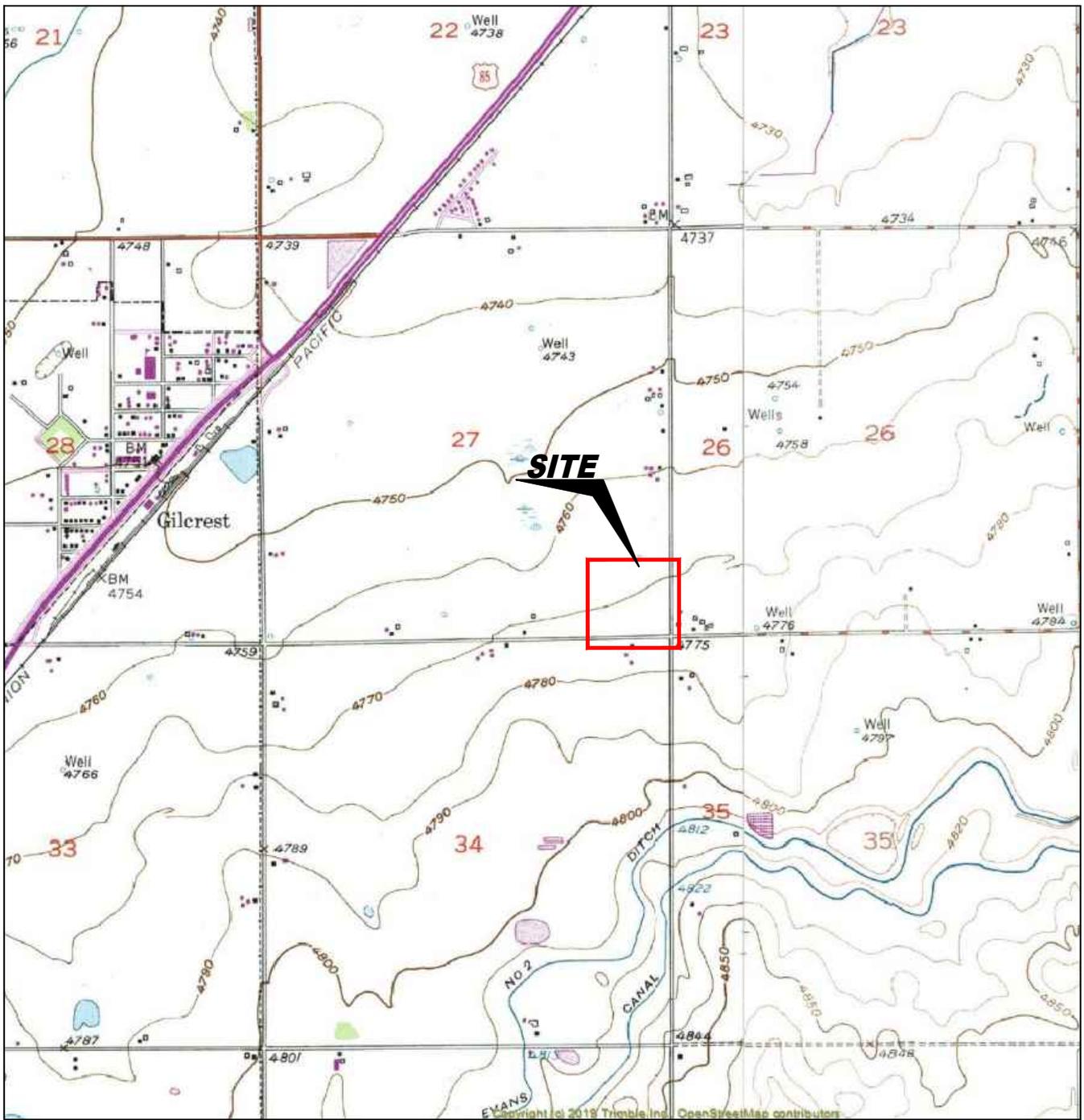
NA - Not Analyzed

TABLE 5
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC 27-9F
FREMONT PROJECT NO. C022-025

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)
MW-1	03/30/22	17.0	<1.0	1.44	11.0	<2.0	<2.0	20.7
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. ~ UPRC #27 - 9F
 NESE Sec. 27, T4N, R66W, 6th PM
 Weld County, Colorado
 40.278319°, -104.754134°

Project # C022-025	API # 05-123-15377	Facility # 327969
Date 7/6/22	Remediation # 18876	Filename 22025T





LEGEND

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

**Figure 2
SITE MAP**

Noble Energy, Inc. ~ UPRC #27 - 9F
 NESE Sec. 27, T4N, R66W, 6th PM
 Weld County, Colorado
 40.278319°, -104.754134°

Project No. C022-025	API # 05-123-15377	Facility # 327969
Date 7/6/22	Remediation # 18876	Filename 22025T



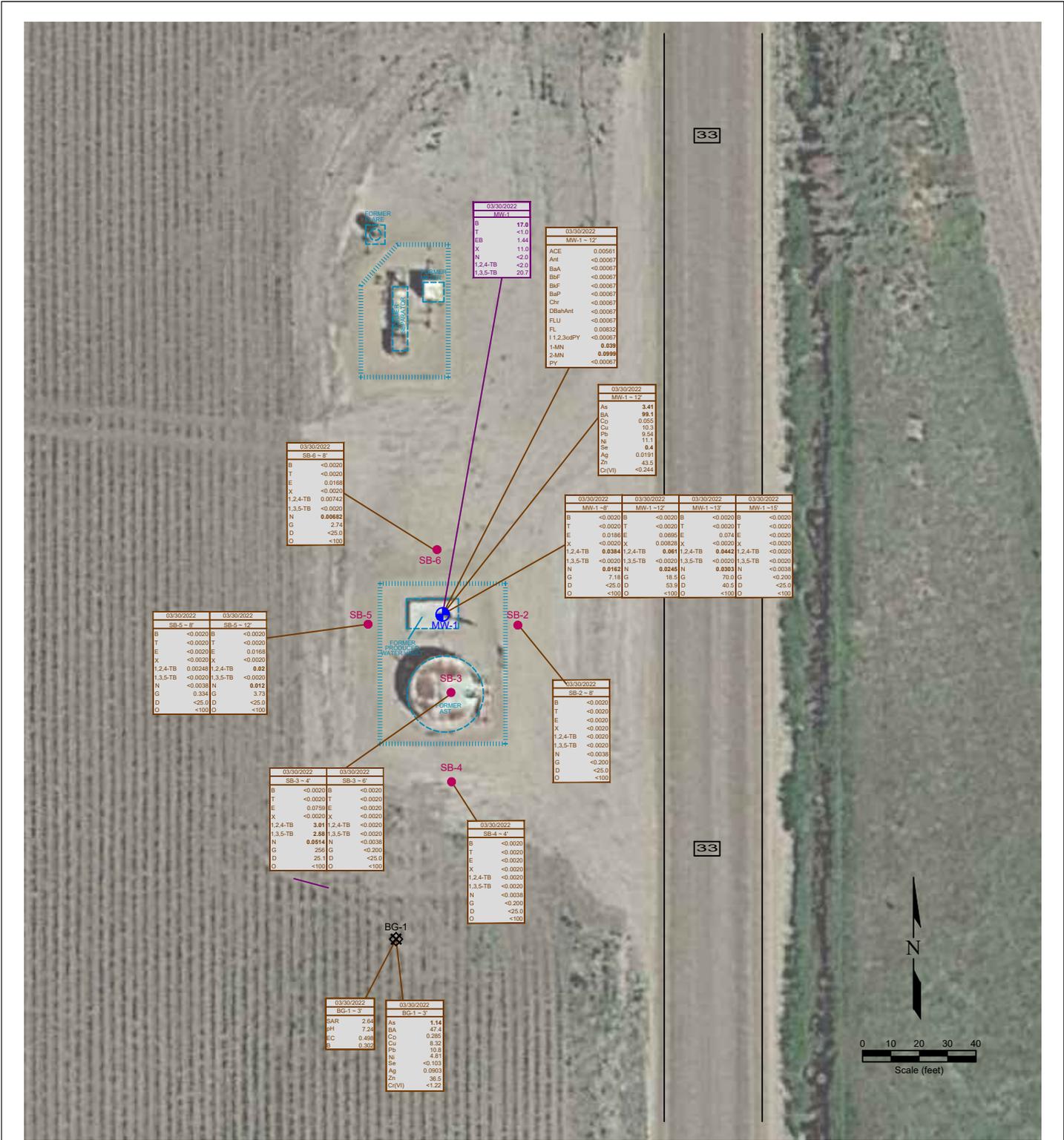


Figure 3
SOIL AND GROUNDWATER CHEMISTRY MAP
 March 30, 2022
 Noble Energy, Inc. ~ UPRC #27 - 9F
 NESE Sec. 27, T4N, R66W, 6th PM
 Weld County, Colorado
 40.278319°, -104.754134°

LEGEND

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ⊕ FORMER FACILITY
- ▭ CONTAINMENT BERM
- ⊕ MONITORING WELL

03/30/2022	DATE SAMPLED	03/30/2022	DATE SAMPLED
MW-1 - 12' <td>MW-1 - 12' <td>MW-1 - 8' <td>MW-1 - 8' </td></td></td>	MW-1 - 12' <td>MW-1 - 8' <td>MW-1 - 8' </td></td>	MW-1 - 8' <td>MW-1 - 8' </td>	MW-1 - 8'
ACE 0.00561	ACENAPHTHENE (mg/kg)	B <0.0020	BENZENE (ug/L)
Ant <0.0007	ANTHRACENE (mg/kg)	T <0.0020	TOLUENE (mg/kg)
BaA <0.0007	BENZO (A) ANTHRACENE (mg/kg)	E 0.0186	ETHYLBENZENE (mg/kg)
BbF <0.0007	BENZO (B) FLUORANTHENE (mg/kg)	X <0.0020	TOTAL XYLENES (mg/kg)
BkF <0.0007	BENZO (K) FLUORANTHENE (mg/kg)	1,2,4-TB 0.0384	1,2,4-TRIMETHYLBENZENE (mg/kg)
BaP <0.0007	BENZO (A) PYRENE (mg/kg)	1,3,5-TB <0.0020	1,3,5-TRIMETHYLBENZENE (mg/kg)
Chr <0.0007	CHRYSENE (mg/kg)	N 0.0162	NAPHTHALENE (mg/kg)
DBahAnt <0.0007	DIBENZ (A,H) ANTHRACENE (mg/kg)	G 7.18	TPH-GRO (mg/kg)
FLU 0.00832	FLUORANTHENE (mg/kg)	D <25.0	TPH-ORO (mg/kg)
1,1,2,3cdPY <0.0007	INDENO (1,2,3-CD) PYRENE (mg/kg)	O <100	TPH-ORO (mg/kg)
1-MN 0.039	1-METHYLNAPHTHALENE (mg/kg)		
2-MN 0.0999	2-METHYLNAPHTHALENE (mg/kg)		
PY <0.0007	PYRENE (mg/kg)		

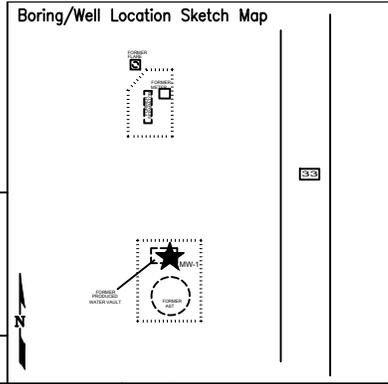
03/30/2022	DATE SAMPLED	03/30/2022	DATE SAMPLED
BG-1 - 3' <td>BG-1 - 3' <td>BG-1 - 3' <td>BG-1 - 3' </td></td></td>	BG-1 - 3' <td>BG-1 - 3' <td>BG-1 - 3' </td></td>	BG-1 - 3' <td>BG-1 - 3' </td>	BG-1 - 3'
SAR 2.64	SAR (units)	As 1.14	ARSENIC (mg/kg)
pH 7.24	pH (pH units)	Ba 47.4	BARIUM (mg/kg)
EC 0.498	EC (mmhos/cm)	Cd 0.286	CADMIUM (mg/kg)
B 0.302	BORON (mg/L)	Cu 8.32	COPPER (mg/kg)
		Pb 10.6	LEAD (mg/kg)
		Ni 4.81	NICKEL (mg/kg)
		Se <0.103	SELENIUM (mg/kg)
		Ag 0.0903	SILVER (mg/kg)
		Zn 36.5	ZINC (mg/kg)
		Cr(VI) <1.22	HEXAVALENT CHROMIUM (mg/kg)

Project No. C022-025	API # 05-123-15377	Facility # 327969	
Date 7/6/22	Remediation # 18876	Filename 22025T	

APPENDIX A
BORING LOGS



BORING/WELL CONSTRUCTION LOG



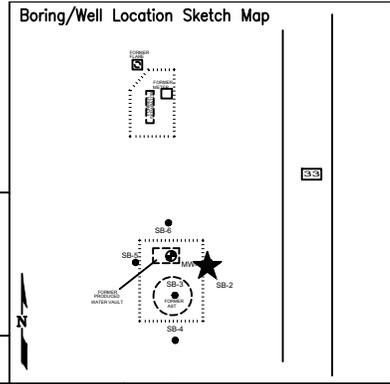
Page 1 of 1

Boring/Well No. MW-1		Total Depth 16'	Location Noble Energy, Inc. UPRC 27-9F NESE SEC. 27, T4N, R66W, 6th PM Weld County, Colorado			
Project No./Name C022-025 / Noble ~ UPRC 27-9F			Approved By			
Drilling Contractor/Driller Drill Pro			Geologist/Office Paul Henehan / Fremont Environmental, Inc.			
Drilling Equipment/Method Geoprobe / Direct Push		Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 03/28/2022		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. SCH 40 PVC 1"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 1" Slot Size 0.010"				
Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured 8.13 03/28/2022	

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
5	Bentonite	1" Blank	CS	Clayey sand, fill, moist, brown, gray streaks 3.5' to 4.0' with light odor				2
			CS	Fill to 6.5', then firm clayey sand, gray 6.5'; to 8.0', moist, light odor				
10	#10-20 Silica Sand	1" Screen	SM	Firm sandy silt, light gray with light to moderate odor				330
			MH	Firm sandy silt to 14', then silty fine to medium sand, light gray to 14', then brown, wet at 14', light to moderate odor, actual depth to water 5.5'				670 480
15			MH					1
20				TD 16'				



BORING/WELL CONSTRUCTION LOG



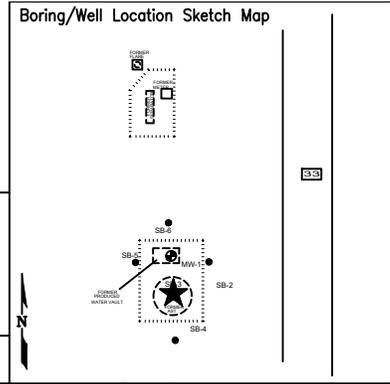
Page 1 of 1

Boring/Well No. SB-2		Total Depth 12'	Location Noble Energy, Inc. UPRC 27-9F NESE SEC. 27, T4N, R66W, 6th PM Weld County, Colorado				
Project No./Name C022-025 / Noble ~ UPRC 27-9F			Drilling Contractor/Driller Drill Pro				
Geologist/Office Paul Henehan / Fremont Environmental, Inc.			Approved By				
Drilling Equipment/Method Geoprobe / Direct Push			Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 03/28/2022		
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				
		FILL	Fill to 3', then silty fine to medium sand, brown, moist, no stain, no odor				
5		SM	Silty sand to 6', then firm sandy sandy silt, brown, wet 6' to 7'				2
		MH					
10		ML	Quite firm clayey silt with minor sand, no stain, no odor				1
			TD 12' backfill with bentonite				1
15							
20							



BORING/WELL CONSTRUCTION LOG



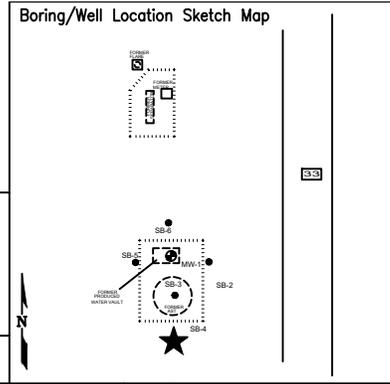
Page 1 of 1

Boring/Well No. SB-3		Total Depth 12'	Location Noble Energy, Inc. UPRC 27-9F NESE SEC. 27, T4N, R66W, 6th PM Weld County, Colorado				
Project No./Name C022-025 / Noble ~ UPRC 27-9F			Approved By				
Drilling Contractor/Driller Drill Pro			Geologist/Office Paul Henehan / Fremont Environmental, Inc.				
Drilling Equipment/Method Geoprobe / Direct Push			Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 03/28/2022		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
5			SM	Silty fine to medium sand, moist, moderate odor, dark brown				1080
			MH	Silty fine to medium sand to 5', then firm sandy silt, odor to 5', dark gray to 5', then light brown, moist				5
10				Firm sandy silt, light brown, light odor, moist				11
				TD 12' backfill with bentonite				7
15								
20								



BORING/WELL CONSTRUCTION LOG



Page 1 of 1

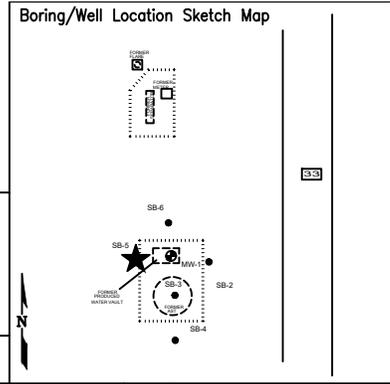
Boring/Well No. SB-4		Total Depth 12'	Location Noble Energy, Inc. UPRC 27-9F NESE SEC. 27, T4N, R66W, 6th PM Weld County, Colorado			
Project No./Name C022-025 / Noble ~ UPRC 27-9F			Drilling Contractor/Driller Drill Pro			
Geologist/Office Paul Henehan / Fremont Environmental, Inc.			Approved By			
Drilling Equipment/Method Geoprobe / Direct Push			Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 03/28/2022	
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
5			SM	Silty fine to medium sand, brown, no stain, no odor				0
				Silty fine to medium sand to 6', then firm sandy silt, no stain, no odor				
			MH	Firmer sandy silt, brown, no stain, no odor				0
10			MH					0
15								0
20								

TD 12'
backfill with bentonite



BORING/WELL CONSTRUCTION LOG



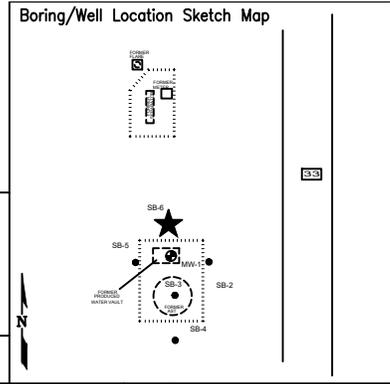
Page 1 of 1

Boring/Well No. SB-5		Total Depth 12'	Location Noble Energy, Inc. UPRC 27-9F NESE SEC. 27, T4N, R66W, 6th PM Weld County, Colorado			
Project No./Name C022-025 / Noble ~ UPRC 27-9F			Approved By			
Drilling Contractor/Driller Drill Pro			Geologist/Office Paul Henehan / Fremont Environmental, Inc.			
Drilling Equipment/Method Geoprobe / Direct Push			Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 03/28/2022	
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
		FILL	Fill, moist, brown, no stain, no odor				
5		SM	Silty sand to 7', then sandy silt, light odor, very moist			29	2
		MH	Silty sand to 9' then firm sandy silt, moderate odor				46
10		SM					46
		MH					46
15			TD 12' backfill with bentonite				320
20							



BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. SB-6		Total Depth 12'	Location Noble Energy, Inc. UPRC 27-9F NESE SEC. 27, T4N, R66W, 6th PM Weld County, Colorado				
Project No./Name C022-025 / Noble ~ UPRC 27-9F		Drilling Contractor/Driller Drill Pro					
Geologist/Office Paul Henehan / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe / Direct Push		Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 03/28/2022			
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				
		FILL	Fill to 3', silty sand brown, moist, no stain, no odor				
5		SM	Silty fine to medium sand to 7', then firm sandy silt, wet at 6', light odor 7' to 8'				2
10		MH	Firm sandy silt, brown, no stain, no odor				16
15			TD 12' backfill with bentonite				5
20							

APPENDIX B

LABORATORY DOCUMENTATION



April 11, 2022

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Noble - UPRC #27-9F

Project Number - C022-025

Attached are your analytical results for Noble - UPRC #27-9F received by Origins Laboratory, Inc. March 30, 2022. This project is associated with Origins project number Y203767-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C022-025
Project: Noble - UPRC #27-9F

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 8FT	Y203767-01	Soil	March 28, 2022 0:00	03/30/2022 12:30
MW-1 12FT	Y203767-02	Soil	March 28, 2022 0:00	03/30/2022 12:30
MW-1 13FT	Y203767-03	Soil	March 28, 2022 0:00	03/30/2022 12:30
MW-1 15FT	Y203767-04	Soil	March 28, 2022 0:00	03/30/2022 12:30
SB-2 8FT	Y203767-05	Soil	March 28, 2022 0:00	03/30/2022 12:30
SB-3 4FT	Y203767-06	Soil	March 28, 2022 0:00	03/30/2022 12:30
SB-3 6FT	Y203767-07	Soil	March 28, 2022 0:00	03/30/2022 12:30
SB-4 4FT	Y203767-08	Soil	March 28, 2022 0:00	03/30/2022 12:30
SB-5 12Ft	Y203767-09	Soil	March 28, 2022 0:00	03/30/2022 12:30
SB-6 8FT	Y203767-10	Soil	March 28, 2022 0:00	03/30/2022 12:30
MW-1	Y203767-11	Water	March 28, 2022 0:00	03/30/2022 12:30
SB-5 8FT	Y203767-12	Soil	March 28, 2022 0:00	03/30/2022 12:30
BG-1 3F	Y203767-13	Soil	March 28, 2022 0:00	03/30/2022 12:30

Origins Laboratory, Inc.



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
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 17203767 Client: Fremont
 Checklist Completed by: JH Client Project ID: UPRC 27-9F
 Date/time completed: 3/30/22 Shipped Via: HS
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 5.8 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>No sample times</u>
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: JH (Project Manager) Date/Time Reviewed: 3/30/22

Origins Laboratory, Inc.

J. Bynon

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
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

MW-1 8FT

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	116 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0384		0.00200	mg/kg	1	B2C3026	03/30/2022	04/04/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.0186		0.00200	"	"	"	"	"	
Naphthalene	0.0162		0.0100	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	7.18		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	89.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	139 %		70-130			"	"	"	S-GC

Origins Laboratory, Inc.



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
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

MW-1 12FT
3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	53.9		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 115 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0610		0.0500	mg/kg	25	B2C3026	03/30/2022	04/03/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	1	"	"	04/06/2022	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.0695		0.0500	"	25	"	"	04/03/2022	
Toluene	ND		0.00200	"	1	"	"	04/06/2022	U
Xylenes, total	0.00828		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	18.5		5.00	"	25	"	"	04/03/2022	

Surrogate: 1,2-Dichloroethane-d4 94.5 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

PAH by 8270D SIM

Origins Laboratory, Inc.



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
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

MW-1 12FT

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203767-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	0.039	0.000364	0.00067	mg/Kg	1	L609000	04/06/2022	04/06/2022	
2-Methylnaphthalene	0.0999	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.00561	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00832	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	0.0245	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	73.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	87.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.3 %	29-110	"	"	"

Origins Laboratory, Inc.



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
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

MW-1 12FT
3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203767-02 (Soil)

Total Metals by 6020B

Arsenic	3.41	0.0855	0.25	mg/Kg	5	L608405	04/01/2022	04/05/2022	
Barium	99.1	0.042	0.25	"	"	"	"	"	
Cadmium	0.055	0.0259	0.25	"	"	"	"	"	J
Copper	10.3	0.0806	0.25	"	"	"	"	"	
Lead	9.54	0.031	0.25	"	"	"	"	"	
Nickel	11.1	0.0633	0.25	"	"	"	"	"	
Selenium	0.4	0.103	0.25	"	"	"	"	"	
Silver	0.0191	0.0067	0.25	"	"	"	"	"	J
Zinc	43.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L609417	03/28/2022	04/07/2022	
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Origins Laboratory, Inc.



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
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

MW-1 13FT
3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	40.5		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 116 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0442		0.00200	mg/kg	1	B2C3026	03/30/2022	04/06/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.0740		0.00200	"	"	"	"	"	
Naphthalene	0.0303		0.0100	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	70.0		50.0	"	250	"	"	04/03/2022	

Surrogate: 1,2-Dichloroethane-d4 96.3 % 70-130 " " "
 Surrogate: Toluene-d8 105 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

MW-1 15FT
3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	106 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C3026	03/30/2022	04/03/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130			"	"	"	

Origins Laboratory, Inc.



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
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

SB-2 8FT

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	114 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C3026	03/30/2022	04/03/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %		70-130			"	"	"	

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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

SB-3 4FT

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	25.1		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 116 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	3.01		0.500	mg/kg	250	B2C3026	03/30/2022	04/06/2022	
1,3,5-Trimethylbenzene	2.58		0.500	"	"	"	"	"	
Benzene	ND		0.00200	"	1	"	"	04/06/2022	U
Ethylbenzene	0.0759		0.00200	"	"	"	"	"	
Naphthalene	0.0514		0.0100	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	256		5.00	"	25	"	"	04/03/2022	

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 95.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 125 % 70-130 " " "

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 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

SB-3 6FT

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	123 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C3026	03/30/2022	04/03/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %		70-130			"	"	"	

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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

SB-4 4FT

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	112 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C3026	03/30/2022	04/04/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.7 %		70-130			"	"	"	

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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

SB-5 12Ft
3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	124 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0168		0.00200	mg/kg	1	B2C3026	03/30/2022	04/04/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.0168		0.00200	"	"	"	"	"	
Naphthalene	0.0120		0.0100	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	3.73		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	90.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %		70-130			"	"	"	

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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

SB-6 8FT

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	119 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00742		0.00200	mg/kg	1	B2C3026	03/30/2022	04/04/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	0.00682		0.00380	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	2.74		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.5 %		70-130			"	"	"	

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 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

MW-1

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y203767-11 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B2C3114	03/31/2022	04/05/2022	U
1,3,5-Trimethylbenzene	20.7		2.00	"	"	"	"	"	
Benzene	17.0		1.00	"	"	"	"	"	
Ethylbenzene	1.44		1.00	"	"	"	"	"	
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	11.0		1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	111 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %		70-130			"	"	"	

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 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

SB-5 8FT

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-12 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C3023	03/30/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	107 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00248		0.00200	mg/kg	1	B2C3026	03/30/2022	04/04/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.334		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130			"	"	"	

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Fremont Environmental
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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

BG-1 3F

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203767-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.302		0.101	mg/L	1	B2C3122	03/31/2022	04/01/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	1.31		0.499	meq/L	10	[CALC]	03/30/2022	04/01/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.53		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.24			pH Units	1	B2C3019	03/31/2022	04/01/2022	
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SAR by 20B Saturated Paste

SAR	2.64			SAR	1	B2C3018	03/30/2022	04/01/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.498		0.00500	mmhos/cm	1	B2C3020	03/31/2022	04/01/2022	
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Total Metals by 6020B

Arsenic	1.14	0.0855	0.25	mg/Kg	5	L608957	04/05/2022	04/06/2022	
Barium	47.4	0.042	0.25	"	"	"	"	"	
Cadmium	0.285	0.0259	0.25	"	"	"	"	"	
Copper	8.32	0.0806	0.25	"	"	"	"	"	

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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

BG-1 3F

3/28/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203767-13 (Soil)

Total Metals by 6020B

Lead	10.8	0.031	0.25	mg/Kg	5	L608957	04/05/2022	04/06/2022	
Nickel	4.81	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0903	0.0067	0.25	"	"	"	"	"	J
Zinc	36.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L609418	03/28/2022	04/07/2022	
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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C3023 - EPA 3550B										
Blank (B2C3023-BLK1)										
					Prepared: 03/30/2022 Analyzed: 04/06/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	31		"	24.9		126	50-150			

Origins Laboratory, Inc.



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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3023 - EPA 3550B

LCS (B2C3023-BS1)

Prepared: 03/30/2022 Analyzed: 04/06/2022

Diesel (C10-C28)	1120	50.0	mg/kg	1000		112	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000		118	70-130			
Surrogate: o-Terphenyl	66		"	49.8		133	50-150			

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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3023 - EPA 3550B

Matrix Spike (B2C3023-MS1)	Source: Y203766-15			Prepared: 03/30/2022 Analyzed: 04/06/2022						
Diesel (C10-C28)	1130	50.0	mg/kg	1000	ND	113	70-130			
Residual Range Organics (C28-C40)	1190	200	"	1000	ND	119	70-130			
Surrogate: o-Terphenyl	60		"	49.8		121	50-150			

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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C3023 - EPA 3550B										
Matrix Spike Dup (B2C3023-MSD1)		Source: Y203766-15			Prepared: 03/30/2022 Analyzed: 04/06/2022					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130	6.02	35	
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130	7.93	35	
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

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 Project: Noble - UPRC #27-9F

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3026 - EPA 5030 (soil)

Blank (B2C3026-BLK1)

Prepared: 03/30/2022 Analyzed: 04/03/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.4	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	70-130			

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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3026 - EPA 5030 (soil)

LCS (B2C3026-BS1)

Prepared: 03/30/2022 Analyzed: 04/03/2022

1,2,4-Trimethylbenzene	0.0920	0.00200	mg/kg	0.100		92.0	70-130			
1,3,5-Trimethylbenzene	0.0946	0.00200	"	0.100		94.6	70-130			
Benzene	0.0907	0.00200	"	0.100		90.7	70-130			
Ethylbenzene	0.0933	0.00200	"	0.100		93.3	70-130			
Naphthalene	0.0882	0.0100	"	0.100		88.2	70-130			
Toluene	0.0962	0.00200	"	0.100		96.2	70-130			
o-Xylene	0.0937	0.00200	"	0.100		93.7	70-130			
m,p-Xylene	0.188	0.00400	"	0.200		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3026 - EPA 5030 (soil)

Matrix Spike (B2C3026-MS1)	Source: Y203723-01			Prepared: 03/30/2022 Analyzed: 04/03/2022						
1,2,4-Trimethylbenzene	0.0833	0.00200	mg/kg	0.100	ND	83.3	70-130			
1,3,5-Trimethylbenzene	0.0851	0.00200	"	0.100	ND	85.1	70-130			
Benzene	0.0863	0.00200	"	0.100	ND	86.3	70-130			
Ethylbenzene	0.0864	0.00200	"	0.100	ND	86.4	70-130			
Naphthalene	0.0825	0.0100	"	0.100	0.00130	81.2	70-130			
Toluene	0.0885	0.00200	"	0.100	ND	88.5	70-130			
o-Xylene	0.0884	0.00200	"	0.100	ND	88.4	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3026 - EPA 5030 (soil)

Matrix Spike Dup (B2C3026-MSD1)	Source: Y203723-01			Prepared: 03/30/2022 Analyzed: 04/03/2022						
1,2,4-Trimethylbenzene	0.0716	0.00200	mg/kg	0.100	ND	71.6	70-130	15.1	20	
1,3,5-Trimethylbenzene	0.0722	0.00200	"	0.100	ND	72.2	70-130	16.4	20	
Benzene	0.0807	0.00200	"	0.100	ND	80.7	70-130	6.75	20	
Ethylbenzene	0.0777	0.00200	"	0.100	ND	77.7	70-130	10.6	20	
Naphthalene	0.0727	0.0100	"	0.100	0.00130	71.4	70-130	12.6	20	
Toluene	0.0817	0.00200	"	0.100	ND	81.7	70-130	8.04	20	
o-Xylene	0.0795	0.00200	"	0.100	ND	79.5	70-130	10.6	20	
m,p-Xylene	0.155	0.00400	"	0.200	ND	77.3	70-130	10.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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 Project: Noble - UPRC #27-9F

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3114 - EPA 5030B (Water)

Blank (B2C3114-BLK1)

Prepared: 03/31/2022 Analyzed: 04/04/2022

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	71		"	62.5	113		70-130			
Surrogate: Toluene-d8	60		"	62.5	96.7		70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5	109		70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3114 - EPA 5030B (Water)

LCS (B2C3114-BS1)

Prepared: 03/31/2022 Analyzed: 04/04/2022

1,2,4-Trimethylbenzene	46.6	2.00	ug/L	50.0		93.1	70-130			
1,3,5-Trimethylbenzene	46.7	2.00	"	50.0		93.4	70-130			
Benzene	43.1	1.00	"	50.0		86.3	70-130			
Ethylbenzene	47.3	1.00	"	50.0		94.6	70-130			
m,p-Xylene	91.6	2.00	"	100		91.6	70-130			
Naphthalene	46.4	2.00	"	50.0		92.8	70-130			
o-Xylene	47.3	1.00	"	50.0		94.6	70-130			
Toluene	47.5	1.00	"	50.0		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		106	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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 Project: Noble - UPRC #27-9F

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3114 - EPA 5030B (Water)

Matrix Spike (B2C3114-MS1)	Source: Y203730-01			Prepared: 03/31/2022 Analyzed: 04/04/2022						
1,2,4-Trimethylbenzene	53.6	2.00	ug/L	50.0	ND	107	70-130			
1,3,5-Trimethylbenzene	54.7	2.00	"	50.0	ND	109	70-130			
Benzene	51.2	1.00	"	50.0	1.31	99.7	70-130			
Ethylbenzene	52.0	1.00	"	50.0	ND	104	70-130			
m,p-Xylene	105	2.00	"	100	ND	105	70-130			
Naphthalene	53.6	2.00	"	50.0	ND	107	70-130			
o-Xylene	52.1	1.00	"	50.0	ND	104	70-130			
Toluene	54.2	1.00	"	50.0	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3114 - EPA 5030B (Water)

Matrix Spike Dup (B2C3114-MSD1)	Source: Y203730-01			Prepared: 03/31/2022 Analyzed: 04/04/2022						
1,2,4-Trimethylbenzene	51.6	2.00	ug/L	50.0	ND	103	70-130	3.82	20	
1,3,5-Trimethylbenzene	51.4	2.00	"	50.0	ND	103	70-130	6.31	20	
Benzene	48.8	1.00	"	50.0	1.31	95.1	70-130	4.60	20	
Ethylbenzene	50.0	1.00	"	50.0	ND	100	70-130	3.87	20	
m,p-Xylene	101	2.00	"	100	ND	101	70-130	4.08	20	
Naphthalene	50.7	2.00	"	50.0	ND	101	70-130	5.67	20	
o-Xylene	48.4	1.00	"	50.0	ND	96.9	70-130	7.24	20	
Toluene	53.5	1.00	"	50.0	ND	107	70-130	1.23	20	
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		112	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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 Project: Noble - UPRC #27-9F

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L609000 - 3550B

MSD (L 86265-MSD-L609000)		Source: 86265			Prepared: 04/06/2022 Analyzed: 04/06/2022					
1-Methylnaphthalene	0.119	0.000364	mg/Kg	0.167	86265	71.2	30-130	3.4	30	
2-Methylnaphthalene	0.118	0.000645	"	0.167	86265	70.6	30-130	3.4	30	
Acenaphthene	0.113	0.000304	"	0.167	86265	67.6	30-130	0.8	30	
Pyrene	0.142	0.000643	"	0.167	86265	85	30-130	2	30	
Anthracene	0.13	0.000334	"	0.167	86265	77.8	30-130	1.5	30	
Benzo(a)anthracene	0.125	0.000493	"	0.167	86265	74.8	30-130	1.6	30	
Benzo(a)pyrene	0.12	0.000468	"	0.167	86265	71.8	30-130	3.3	30	
Benzo(b)fluoranthene	0.147	0.000585	"	0.167	86265	88	30-130	15.3	30	
Benzo(k)fluoranthene	0.109	0.000437	"	0.167	86265	65.2	30-130	14.4	30	
Chrysene	0.113	0.000624	"	0.167	86265	67.6	30-130	0.8	30	
Dibenz(a,h)anthracene	0.172	0.000614	"	0.167	86265	103	30-130	5.9	30	
Fluoranthene	0.14	0.000394	"	0.167	86265	83.8	30-130	4.1	30	
Fluorene	0.125	0.000286	"	0.167	86265	74.8	30-130	0.7	30	
Indeno(1,2,3-cd)pyrene	0.161	0.000627	"	0.167	86265	96.4	30-130	3.7	30	
Naphthalene	0.113	0.000484	"	0.167	86265	67.6	30-130	3.6	30	
Surrogate: 2-Fluorobiphenyl	75.6		"	0.333	222	75.6	33-115			
Surrogate: 4-Terphenyl-d14	101		"	0.333	259	101	33-122			
Surrogate: Nitrobenzene-d5	55.8		"	0.333	177	55.8	29-110			

MS (L 86265-MS-L609000)		Source: 86265			Prepared: 04/06/2022 Analyzed: 04/06/2022					
Benzo(a)pyrene	0.116	0.000468	mg/Kg	0.163	86265	71.1	30-130			
Fluorene	0.126	0.000286	"	0.163	86265	77.3	30-130			
Indeno(1,2,3-cd)pyrene	0.155	0.000627	"	0.163	86265	95	30-130			
Naphthalene	0.109	0.000484	"	0.163	86265	66.8	30-130			
Fluoranthene	0.146	0.000394	"	0.163	86265	89.5	30-130			
Dibenz(a,h)anthracene	0.162	0.000614	"	0.163	86265	99.3	30-130			
Chrysene	0.112	0.000624	"	0.163	86265	68.7	30-130			

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 Project: Noble - UPRC #27-9F

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L609000 - 3550B

MS (L 86265-MS-L609000)		Source: 86265			Prepared: 04/06/2022 Analyzed: 04/06/2022					
Benzo(k)fluoranthene	0.126	0.000437	mg/Kg	0.163	86265	77.3	30-130			
Benzo(b)fluoranthene	0.126	0.000585	"	0.163	86265	77.3	30-130			
Pyrene	0.145	0.000643	"	0.163	86265	88.9	30-130			
Benzo(a)anthracene	0.123	0.000493	"	0.163	86265	75.4	30-130			
Anthracene	0.132	0.000334	"	0.163	86265	80.9	30-130			
Acenaphthene	0.112	0.000304	"	0.163	86265	68.7	30-130			
2-Methylnaphthalene	0.114	0.000645	"	0.163	86265	69.9	30-130			
1-Methylnaphthalene	0.115	0.000364	"	0.163	86265	70.5	30-130			
Surrogate: Nitrobenzene-d5	56.4		"	0.326	177	56.4	29-110			
Surrogate: 4-Terphenyl-d14	120		"	0.326	259	120	33-122			
Surrogate: 2-Fluorobiphenyl	80.6		"	0.326	222	80.6	33-115			

LCS (LCS-L609000)					Prepared: 04/06/2022 Analyzed: 04/06/2022					
Benzo(a)anthracene	0.126	0.000493	mg/Kg	0.167		75.4	30-130			
Fluorene	0.135	0.000286	"	0.167		80.8	30-130			
Acenaphthene	0.12	0.000304	"	0.167		71.8	30-130			
1-Methylnaphthalene	0.129	0.000364	"	0.167		77.2	30-130			
Pyrene	0.149	0.000643	"	0.167		89.2	30-130			
Indeno(1,2,3-cd)pyrene	0.166	0.000627	"	0.167		99.4	30-130			
Fluoranthene	0.147	0.000394	"	0.167		88	30-130			
Dibenz(a,h)anthracene	0.167	0.000614	"	0.167		100	30-130			
Chrysene	0.125	0.000624	"	0.167		74.8	30-130			
Naphthalene	0.122	0.000484	"	0.167		73	30-130			
2-Methylnaphthalene	0.127	0.000645	"	0.167		76	30-130			
Benzo(k)fluoranthene	0.128	0.000437	"	0.167		76.6	30-130			
Anthracene	0.143	0.000334	"	0.167		85.6	30-130			
Benzo(a)pyrene	0.12	0.000468	"	0.167		71.8	30-130			

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 Project: Noble - UPRC #27-9F

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L609000 - 3550B

LCS (LCS-L609000)

Prepared: 04/06/2022 Analyzed: 04/06/2022

Benzo(b)fluoranthene	0.141	0.000585	mg/Kg	0.167		84.4	30-130			
Surrogate: Nitrobenzene-d5	64.8		"	0.333		64.8	29-110			
Surrogate: 4-Terphenyl-d14	119		"	0.333		119	33-122			
Surrogate: 2-Fluorobiphenyl	93		"	0.333		93	33-115			

LRB (LRB-L609000)

Prepared: 04/06/2022 Analyzed: 04/06/2022

Chrysene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	51.9		"	0.333		51.9	29-110			
Surrogate: 4-Terphenyl-d14	77.4		"	0.333		77.4	33-122			
Surrogate: 2-Fluorobiphenyl	69.6		"	0.333		69.6	33-115			

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Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L608957 - 3050B

MSD (L 92213-MSD-L608957)	Source: 92213	Prepared: 04/05/2022 Analyzed: 04/06/2022
Lead	4.68 0.031 mg/Kg	2.3 5.26 NR 75-125 10.1 80 *
Zinc	35.4 0.534 "	23 13.6 95 75-125 6.4 80
Cadmium	0.464 0.0259 "	0.459 0.0407 92 75-125 2.1 80
Barium	16.9 0.042 "	4.59 18.1 NR 75-125 14.6 80 *
Copper	5.94 0.0806 "	2.3 3.69 98 75-125 14.4 80
Nickel	5.79 0.0633 "	2.3 3.88 83 75-125 14 80
Selenium	3.4 0.103 "	4.59 92213 74 75-125 2 80 *
Silver	0.458 0.0067 "	0.459 92213 100 75-125 0.2 80
Arsenic	2.25 0.0855 "	2.3 1.42 36 75-125 5.6 80 *

MS (L 92213-MS-L608957)	Source: 92213	Prepared: 04/05/2022 Analyzed: 04/06/2022
Cadmium	0.454 0.0259 mg/Kg	0.468 0.0407 88 75-125
Barium	14.6 0.042 "	4.68 18.1 NR 75-125 *
Lead	5.18 0.031 "	2.34 5.26 NR 75-125 *
Nickel	5.03 0.0633 "	2.34 3.88 49 75-125 *
Selenium	3.47 0.103 "	4.68 92213 74 75-125 *
Silver	0.457 0.0067 "	0.468 92213 98 75-125
Zinc	33.2 0.534 "	23.4 13.6 84 75-125
Arsenic	2.38 0.0855 "	2.34 1.42 41 75-125 *
Copper	5.14 0.0806 "	2.34 3.69 62 75-125 *

LCS (LCS-L608957)	Prepared: 04/05/2022 Analyzed: 04/06/2022
Barium	4.9 0.042 mg/Kg 5 98 80-120
Arsenic	2.4 0.0855 " 2.5 96 80-120
Cadmium	0.483 0.0259 " 0.5 97 80-120
Copper	2.63 0.0806 " 2.5 105 80-120
Lead	2.4 0.031 " 2.5 96 80-120

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Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L608957 - 3050B

LCS (LCS-L608957)

Prepared: 04/05/2022 Analyzed: 04/06/2022

Nickel	2.53	0.0633	mg/Kg	2.5		101	80-120			
Selenium	4.77	0.103	"	5		95	80-120			
Silver	0.502	0.0067	"	0.5		100	80-120			
Zinc	25.1	0.534	"	25		100	80-120			

LRB (LRB-L608957)

Prepared: 04/05/2022 Analyzed: 04/06/2022

Zinc	ND	2.5	mg/Kg				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Barium	0.0719	0.25	"				-			J
Cadmium	ND	0.25	"				-			

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Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L609418 -										
DUP (L 86271-DUP)		Source: Y203767-13			Prepared: Analyzed: 04/07/2022					
Chromium, Hexavalent	ND	1.22	mg/Kg		86271		-	0	20	
MS (L 86271-MS)		Source: Y203767-13			Prepared: Analyzed: 04/07/2022					
Chromium, Hexavalent	9.87	1.27	mg/Kg	8.33	86271	118	75-125			
LCS (LCS)		Prepared: Analyzed: 04/07/2022								
Chromium, Hexavalent	7.52	0.244	mg/Kg	8		94	75-125			
LRB (LRB)		Prepared: Analyzed: 04/07/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L608405 - 3050B

MSD (L 86402-MSD-L608405)		Source: 86402			Prepared: 04/01/2022 Analyzed: 04/05/2022					
Silver	0.501	0.0067	mg/Kg	0.484	0.0203	99	75-125	0.4	80	
Zinc	65.5	0.534	"	24.2	45	85	75-125	0.1	80	
Selenium	4.54	0.103	"	4.84	0.41	85	75-125	5.3	80	
Nickel	10.2	0.0633	"	2.42	7.66	105	75-125	5.2	80	
Lead	9.31	0.031	"	2.42	6.99	96	75-125	17.5	80	
Copper	8.69	0.0806	"	2.42	6.81	78	75-125	4.7	80	
Cadmium	0.537	0.0259	"	0.484	0.136	83	75-125	4.3	80	
Barium	25.7	0.042	"	4.84	19.6	126	75-125	12.3	80	*
Arsenic	3.45	0.0855	"	2.42	1.16	95	75-125	14	80	

MS (L 86402-MS-L608405)		Source: 86402			Prepared: 04/01/2022 Analyzed: 04/05/2022					
Nickel	9.68	0.0633	mg/Kg	2.35	7.66	86	75-125			
Barium	22.7	0.042	"	4.71	19.6	66	75-125			*
Cadmium	0.561	0.0259	"	0.471	0.136	90	75-125			
Copper	9.11	0.0806	"	2.35	6.81	98	75-125			
Lead	11.1	0.031	"	2.35	6.99	175	75-125			*
Zinc	65.4	0.534	"	23.5	45	87	75-125			
Silver	0.499	0.0067	"	0.471	0.0203	102	75-125			
Selenium	4.79	0.103	"	4.71	0.41	93	75-125			
Arsenic	3.97	0.0855	"	2.35	1.16	119	75-125			

LCS (LCS-L608405)		Prepared: 04/01/2022 Analyzed: 04/05/2022								
Arsenic	2.56	0.0855	mg/Kg	2.5		102	80-120			
Zinc	24.3	0.534	"	25		97	80-120			
Barium	4.92	0.042	"	5		98	80-120			
Copper	2.39	0.0806	"	2.5		96	80-120			
Lead	2.36	0.031	"	2.5		94	80-120			

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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-025
 Project: Noble - UPRC #27-9F

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L608405 - 3050B

LCS (LCS-L608405)

Prepared: 04/01/2022 Analyzed: 04/05/2022

Nickel	2.48	0.0633	mg/Kg	2.5		99	80-120			
Selenium	4.96	0.103	"	5		99	80-120			
Cadmium	0.485	0.0259	"	0.5		97	80-120			
Silver	0.478	0.0067	"	0.5		96	80-120			

LRB (LRB-L608405)

Prepared: 04/01/2022 Analyzed: 04/05/2022

Cadmium	ND	0.25	mg/Kg				-			
Barium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			

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Paul Henehan
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 Project: Noble - UPRC #27-9F

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L609417 -										
DUP (L 86213-DUP)		Source: 86213			Prepared: Analyzed: 04/07/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		86213		-	0	20	
MS (L 86213-MS)		Source: 86213			Prepared: Analyzed: 04/07/2022					
Chromium, Hexavalent	1.61	0.244	mg/Kg	7.83	86213	21	75-125			*

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Project: Noble - UPRC #27-9F

Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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