

# **FREMONT ENVIRONMENTAL INC.**

December 4, 2020

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

Subject:       **Groundwater Data Submittal**  
UPRC Federal 27-3F, 6F  
API # 05-123-15369  
SENW Sec 27, T4N, R66W  
Weld County, Colorado  
Fremont Project No. C018-169  
Location # 327961, Remediation # 12102

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Groundwater Data Submittal for the UPRC Federal 27-3F, 6F site in Weld County, Colorado. The enclosed data describes the groundwater quality at the site during the recent quarterly sampling and monitoring event.

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

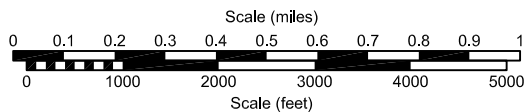
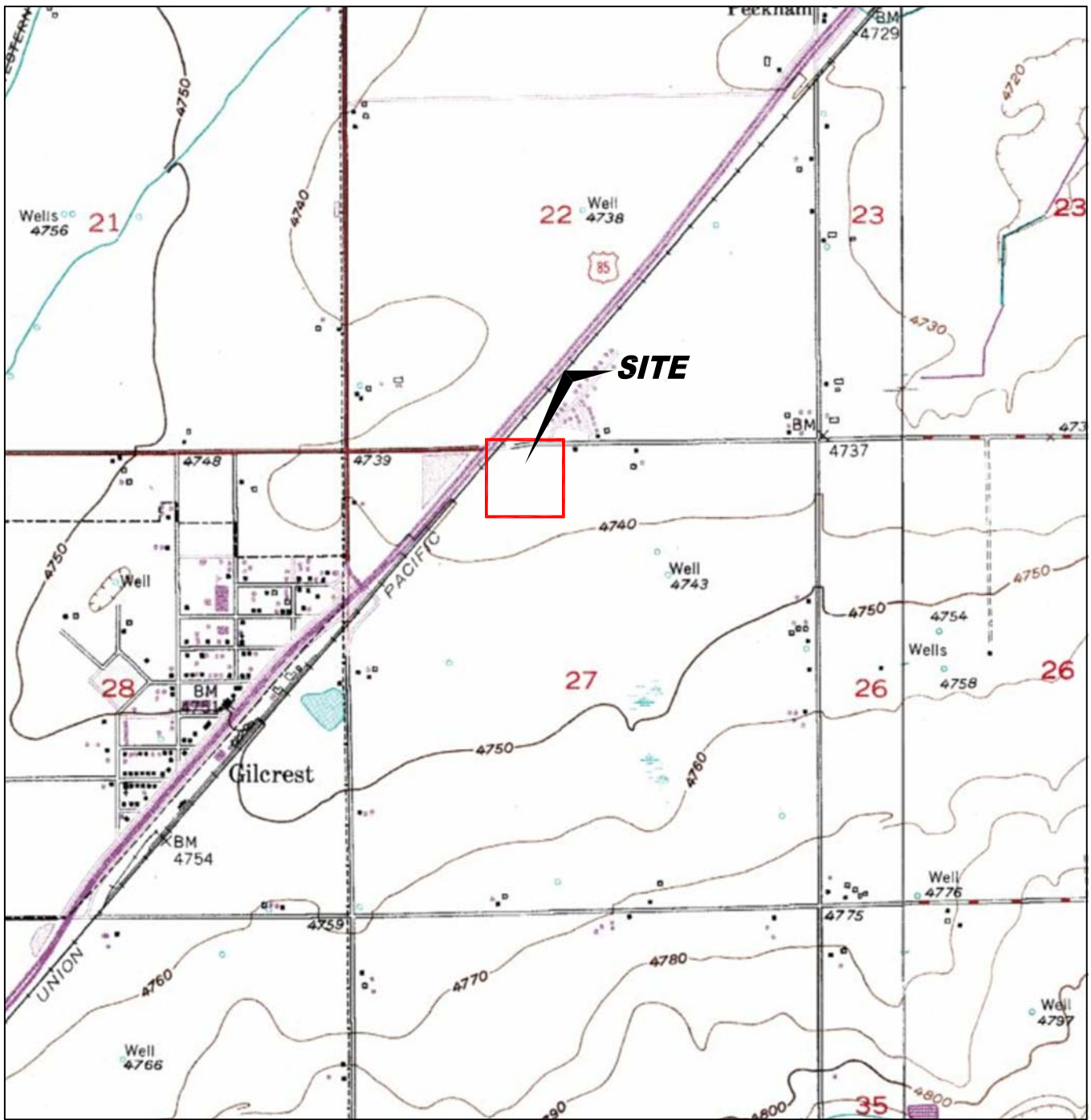
**TABLE 1**  
**SUMMARY OF GROUND WATER ELEVATION DATA AND CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**UPRC FEDERAL 27-3F, 6F, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C018-169**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	11/21/18	<1.0	<1.0	<1.0	<1.0	99.68	8.00	91.68	NP
	02/28/19	<1.0	<1.0	<1.0	<2.0		9.64	90.04	NP
	05/15/19	<1.0	<1.0	<1.0	<2.0	99.47	10.73	88.74	NP
	08/12/19	<1.0	<1.0	<1.0	<2.0		8.25	91.22	NP
	11/05/19	<1.0	<1.0	<1.0	<2.0		7.83	91.64	NP
	02/20/20	<1.0	<1.0	<1.0	<2.0		9.75	89.72	NP
	05/26/20	<1.0	<1.0	<1.0	<2.0		9.53	89.94	NP
	08/11/20	22	<1.0	<1.0	<2.0		11.49	87.98	NP
	11/04/20	1600	<1.0	<1.0	95		10.63	88.84	NP
MW-2	11/21/18	<1.0	<1.0	<1.0	<1.0	100.00	8.24	91.76	NP
	02/28/19	<1.0	<1.0	<1.0	<2.0		9.84	90.16	NP
	05/15/19	<1.0	<1.0	<1.0	<2.0	99.80	10.93	88.87	NP
	08/12/19	<1.0	<1.0	<1.0	<2.0		8.53	91.27	NP
	11/05/19	<1.0	<1.0	<1.0	12		8.08	91.72	NP
	02/20/20	<1.0	<1.0	<1.0	<2.0		9.96	89.84	NP
	05/26/20	<1.0	<1.0	<1.0	<2.0		9.75	90.05	NP
	08/11/20	1.9	<1.0	<1.0	3.4		11.58	88.22	NP
	11/04/20	470	5.8	<1.0	93		10.85	88.95	NP
MW-3	11/21/18	210	1100	100	1500	99.77	8.10	91.67	NP
	02/28/19	460	290	100	2600		10.21	89.56	NP
	05/15/19	360	300	92	1900	100.00	11.30	88.70	NP
	08/12/19	340	41	63	820		10.97	89.03	NP
	11/05/19	430	79	120	1500		8.40	91.60	NP
	02/20/20	190	12	48	440		10.32	89.68	NP
	05/26/20	66	<1.0	32	290		9.77	90.23	NP
	08/11/20	39	15	9.8	100		11.72	88.28	NP
	11/04/20	37	1.9	8.8	150		10.83	89.17	NP
MW-4	11/21/18	<1.0	<1.0	<1.0	<1.0	99.68	8.03	91.65	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-4	02/28/19	<1.0	<1.0	<1.0	<2.0	99.50	9.63	90.05	NP
	05/15/19	<1.0	<1.0	<1.0	<2.0		10.72	88.78	NP
	08/12/19	<1.0	<1.0	<1.0	<2.0		8.24	91.26	NP
	11/05/19	<1.0	<1.0	<1.0	<2.0		7.85	91.65	NP
	02/20/20	<1.0	<1.0	<1.0	<2.0		9.75	89.75	NP
	05/26/20	<1.0	<1.0	<1.0	<2.0		9.53	89.97	NP
	08/11/20	<1.0	<1.0	<1.0	<2.0		11.31	88.19	NP
	11/04/20	<1.0	<1.0	<1.0	<2.0		10.63	88.87	NP
MW-5	11/21/18	<1.0	<1.0	<1.0	<1.0	99.75	8.18	91.57	NP
	02/28/19	<1.0	<1.0	<1.0	3.0	99.54	9.82	89.93	NP
	05/15/19	<1.0	<1.0	<1.0	<2.0		10.91	88.63	NP
	08/12/19	<1.0	<1.0	<1.0	<2.0		8.37	91.17	NP
	11/05/19	<1.0	<1.0	<1.0	<2.0		7.99	91.55	NP
	02/20/20	<1.0	<1.0	<1.0	<2.0		9.94	89.60	NP
	05/26/20	<1.0	<1.0	<1.0	<2.0		9.71	89.83	NP
	08/11/20	<1.0	<1.0	<1.0	<2.0		12.56	86.98	NP
	11/04/20	<1.0	<1.0	<1.0	<2.0		10.80	88.74	NP
Table 910-1 Limits		5	560	700	1,400				

Bold face values exceed the COGCC limits

NP - No Free Product



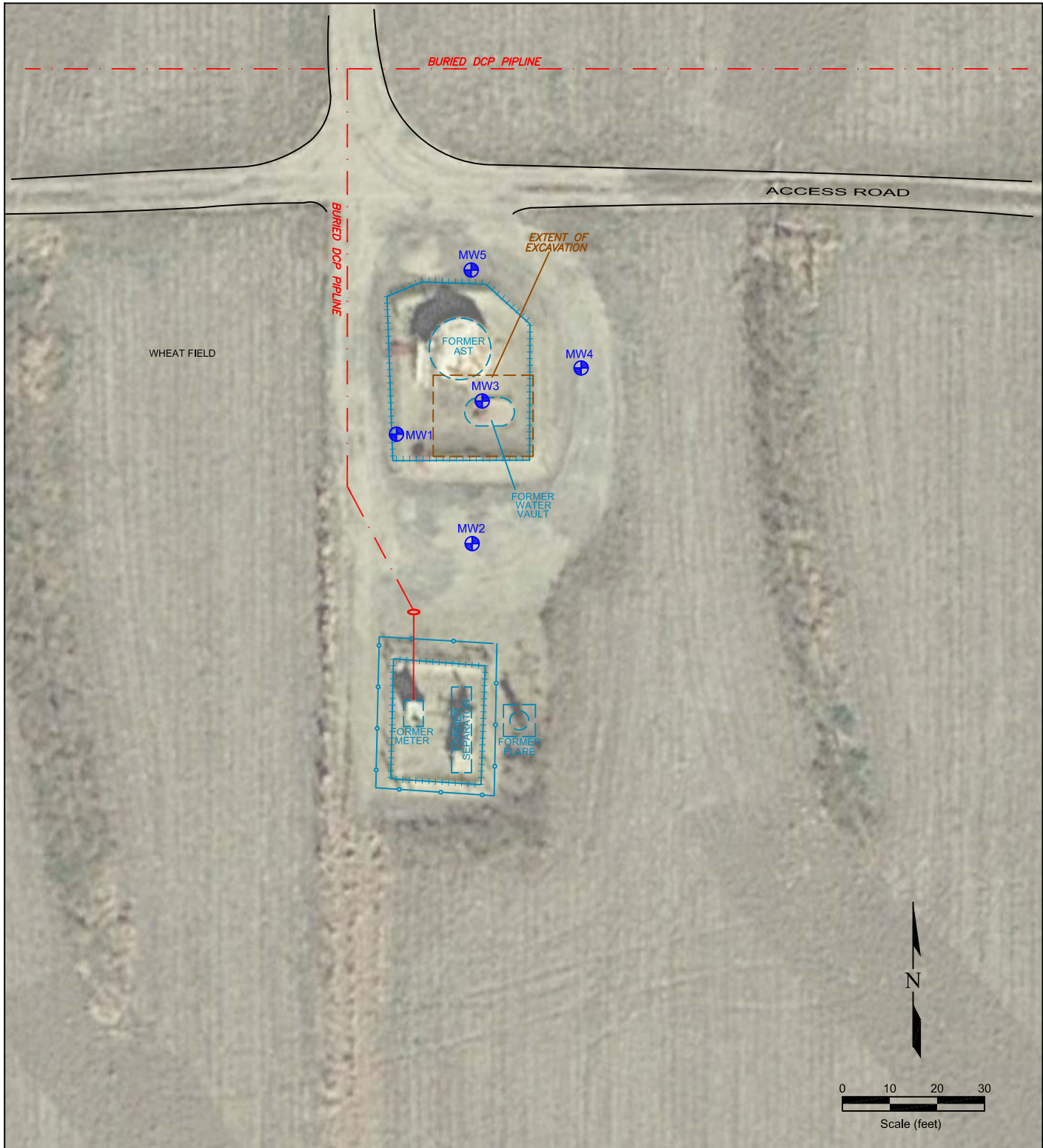
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP









**NOBLE UPRC FEDERAL 27-3F, 6F**  
NENW Section 27, T4N R66W  
Weld County, Colorado

Project No. <b>CO18-169</b>	Prepared by	Drawn by <b>TA</b>
Date <b>11/24/20</b>	Reviewed by <b>EB</b>	Filename <b>18169T</b>





**LEGEND**

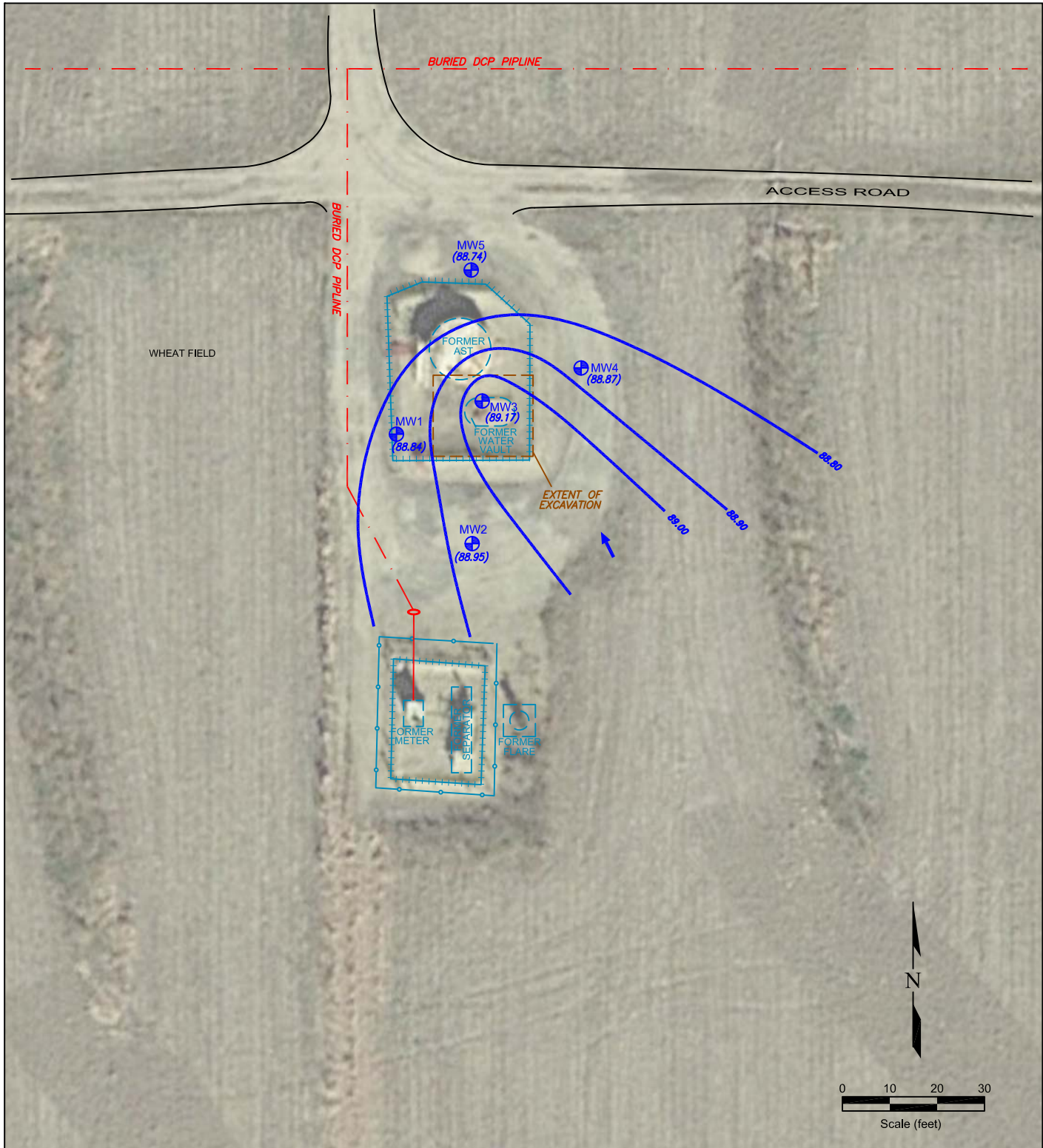
-  MONITORING WELL
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY
-  CONTAINMENT WALL
-  LIMITS OF EXCAVATION
-  CONTAINMENT BERM
-  FENCE LINE
-  DCP PIPELINE

**Figure 2  
SITE MAP**

**NOBLE UPRC FEDERAL 27-3F, 6F**  
 NENW Section 27, T4N R66W  
 Weld County, Colorado

Project No. <b>CO18-169</b>	Prepared by	Drawn by <b>TA</b>
Date <b>11/24/20</b>	Reviewed by <b>EB</b>	Filename <b>18169Q</b>





**LEGEND**












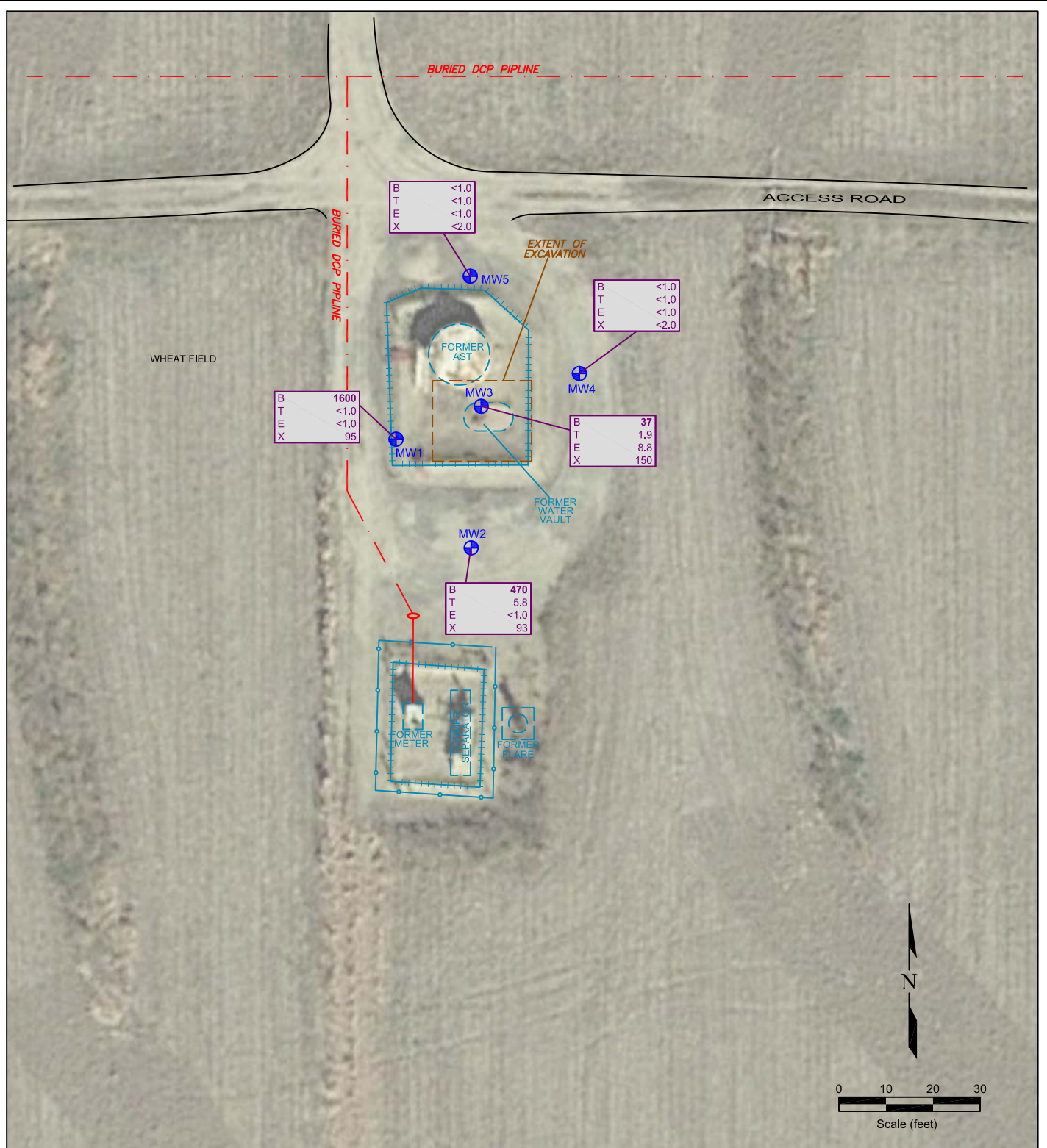
-  MONITORING WELL
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY
-  CONTAINMENT WALL
-  LIMITS OF EXCAVATION
-  CONTAINMENT BERM
-  FENCE LINE
-  DCP PIPELINE
-  GROUND WATER ELEVATION (feet above mean sea level)
-  WATER TABLE CONTOUR (feet above mean sea level)
-  INFERRED GROUND WATER FLOW DIRECTION

Figure 3  
**INFERRED GROUNDWATER CONTOUR MAP**  
 November 4, 2020

**NOBLE UPRC FEDERAL 27-3F, 6F**  
 NENW Section 27, T4N R66W  
 Weld County, Colorado

Project No. <b>CO18-169</b>	Prepared by	Drawn by <b>TA</b>
Date <b>11/24/20</b>	Reviewed by <b>EB</b>	Filename <b>18169Q</b>





**LEGEND**

- MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT WALL
- LIMITS OF EXCAVATION
- CONTAINMENT BERM
- FENCE LINE
- DCP PIPELINE

B	<1.0	BENZENE (ug/L)
T	<1.0	TOLUENE (ug/L)
E	<1.0	ETHYLBENZENE (ug/L)
X	<2.0	TOTAL XYLENES (ug/L)

Figure 4  
**GROUNDWATER CHEMISTRY MAP**  
 November 4, 2020









**NOBLE UPRC FEDERAL 27-3F, 6F**  
 NENW Section 27, T4N R66W  
 Weld County, Colorado

Project No. <b>CO18-169</b>	Prepared by	Drawn by <b>TA</b>
Date <b>11/24/20</b>	Reviewed by <b>EB</b>	Filename <b>18169Q</b>





**LEGEND**


-  MONITORING WELL
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY
-  CONTAINMENT WALL
-  LIMITS OF EXCAVATION
-  CONTAINMENT BERM
-  FENCE LINE
-  DCP PIPELINE

 THICKNESS OF BENZENE (ug/L)

 BENZENE ISOCONCENTRATION (ug/L)  
Inferred in part from historical data

Figure 5  
**BENZENE ISO-CONCENTRATION MAP**  
 November 4, 2020

**NOBLE UPRC FEDERAL 27-3F, 6F**  
 NENW Section 27, T4N R66W  
 Weld County, Colorado

Project No. <b>CO18-169</b>	Prepared by	Drawn by <b>TA</b>	
Date <b>12/4/20</b>	Reviewed by <b>EB</b>	Filename <b>18169Q</b>	

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 11, 2020

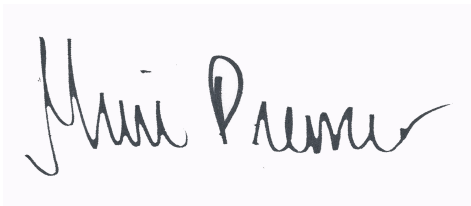
Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - UPRC Federal 27-3F, 6F

Work Order #2011051

Enclosed are the results of analyses for samples received by Summit Scientific on 11/04/20 16:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large, stylized initial "M".

Muri Premer For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F, 6F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/11/20 12:37

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2011051-01	Water	11/04/20 00:00	11/04/20 16:11
MW-2	2011051-02	Water	11/04/20 00:00	11/04/20 16:11
MW-3	2011051-03	Water	11/04/20 00:00	11/04/20 16:11
MW-4	2011051-04	Water	11/04/20 00:00	11/04/20 16:11
MW-5	2011051-05	Water	11/04/20 00:00	11/04/20 16:11

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>

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933

Client: FREMONT ENV. Project Manager: Paul H.  
 Address: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_ Bill To: Jacob  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Project Name: Noble - UPRC Federal 27-3F, 6F  
 Sampler Name: ES Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions				
					HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)											
1	MW-1	11/4/20		2			X		X				X	BTEX									
2	MW-2																						
3	MW-3																						
4	MW-4																						
5	MW-5																						
6																							
7																							
8																							
9																							
10																							

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>11/4/20 1600</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/04/2020 1600</u>	Turn Around Time (Check)	Notes:
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	Same Day _____ 72 hours _____	
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	24 hours _____ Standard <input checked="" type="checkbox"/>	
				48 hours _____	
				Sample Integrity: _____	
				Temperature Upon Receipt: <u>5.7</u>	
				Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

**Sample Receipt Checklist**

S2 Work Order \_\_\_\_\_

Client: Framont Environmental Client Project ID: Nbdc-UPRC-Federal 27-3F, 6F

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

Matrix (check all that apply):  Air  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)

Temp (°C)	<u>5.1</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

TS  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

11/04/2020  
Date/Time



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F, 6F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/11/20 12:37

**MW-1**  
**2011051-01 (Water)**

**Summit Scientific**

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

Date Sampled: **11/04/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1600</b>	100	ug/l	100	BDK0069	11/05/20	11/06/20	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>95</b>	2.0	"	"	"	"	"	"	

Date Sampled: **11/04/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		134 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		88.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %	21-167		"	"	"	"	

Summit Scientific

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



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F, 6F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/11/20 12:37

**MW-2**  
**2011051-02 (Water)**

**Summit Scientific**

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

Date Sampled: **11/04/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>470</b>	100	ug/l	100	BDK0069	11/05/20	11/06/20	EPA 8260B	
<b>Toluene</b>	<b>5.8</b>	1.0	"	1	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>93</b>	2.0	"	"	"	"	"	"	

Date Sampled: **11/04/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		84.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F, 6F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/11/20 12:37

**MW-3**  
**2011051-03 (Water)**

**Summit Scientific**

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

Date Sampled: **11/04/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>37</b>	1.0	ug/l	1	BDK0069	11/05/20	11/06/20	EPA 8260B	
<b>Toluene</b>	<b>1.9</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>8.8</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>150</b>	2.0	"	"	"	"	"	"	

Date Sampled: **11/04/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		87.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.7 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F, 6F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/11/20 12:37

**MW-4**  
**2011051-04 (Water)**

**Summit Scientific**

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

Date Sampled: **11/04/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDK0069	11/05/20	11/06/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/04/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		109 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		86.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F, 6F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/11/20 12:37

**MW-5**  
**2011051-05 (Water)**

**Summit Scientific**

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

Date Sampled: **11/04/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDK0069	11/05/20	11/06/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/04/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		114 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		89.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.3 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F, 6F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/11/20 12:37

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

**Summit Scientific**

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

**Batch BDK0069 - EPA 5030 Water MS**

**Blank (BDK0069-BLK1)**

Prepared: 11/05/20 Analyzed: 11/06/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.3		112	23-173			
Surrogate: Toluene-d8	11.6		"	13.3		86.9	20-170			
Surrogate: 4-Bromofluorobenzene	11.1		"	13.3		83.2	21-167			

**LCS (BDK0069-BS1)**

Prepared: 11/05/20 Analyzed: 11/06/20

Benzene	22.8	1.0	ug/l	33.3		68.3	51-132			
Toluene	24.5	1.0	"	33.3		73.6	51-138			
Ethylbenzene	36.6	1.0	"	33.3		110	58-146			
m,p-Xylene	75.5	2.0	"	66.7		113	57-144			
o-Xylene	37.9	1.0	"	33.3		114	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.3		111	23-173			
Surrogate: Toluene-d8	11.6		"	13.3		86.8	20-170			
Surrogate: 4-Bromofluorobenzene	11.5		"	13.3		86.6	21-167			

**Matrix Spike (BDK0069-MS1)**

Source: 2011056-02

Prepared: 11/05/20 Analyzed: 11/06/20

Benzene	23.1	1.0	ug/l	33.3	ND	69.2	34-141			
Toluene	23.5	1.0	"	33.3	ND	70.6	27-151			
Ethylbenzene	36.0	1.0	"	33.3	ND	108	29-160			
m,p-Xylene	74.4	2.0	"	66.7	ND	112	20-166			
o-Xylene	37.6	1.0	"	33.3	ND	113	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.3		111	23-173			
Surrogate: Toluene-d8	11.3		"	13.3		84.9	20-170			
Surrogate: 4-Bromofluorobenzene	11.0		"	13.3		82.7	21-167			

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 Project Manager: Paul Henchan

**Reported:**  
 11/11/20 12:37

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

**Summit Scientific**

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

**Batch BDK0069 - EPA 5030 Water MS**

Matrix Spike Dup (BDK0069-MSD1)	Source: 2011056-02			Prepared: 11/05/20 Analyzed: 11/06/20					
Benzene	23.4	1.0	ug/l	33.3	ND	70.3	34-141	1.59	30
Toluene	24.4	1.0	"	33.3	ND	73.2	27-151	3.63	30
Ethylbenzene	37.2	1.0	"	33.3	ND	112	29-160	3.22	30
m,p-Xylene	76.2	2.0	"	66.7	ND	114	20-166	2.43	30
o-Xylene	38.5	1.0	"	33.3	ND	116	33-159	2.52	30
Surrogate: 1,2-Dichloroethane-d4	15.9		"	13.3		119	23-173		
Surrogate: Toluene-d8	11.5		"	13.3		86.3	20-170		
Surrogate: 4-Bromofluorobenzene	11.6		"	13.3		86.6	21-167		

Summit Scientific

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Project: Noble - UPRC Federal 27-3F, 6F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/11/20 12:37

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference