

# **FREMONT ENVIRONMENTAL INC.**

December 18, 2020

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

Subject:     **Groundwater Data Submittal**  
          McDermed 2-1  
          API # 05-123-12223  
          NWNE Sec 1, T4N, R64W  
          Weld County, Colorado  
          Fremont Project No. C020-022  
          Facility #322891, Remediation #15399

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Groundwater Data Submittal for the McDermed 2-1 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

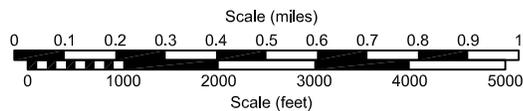
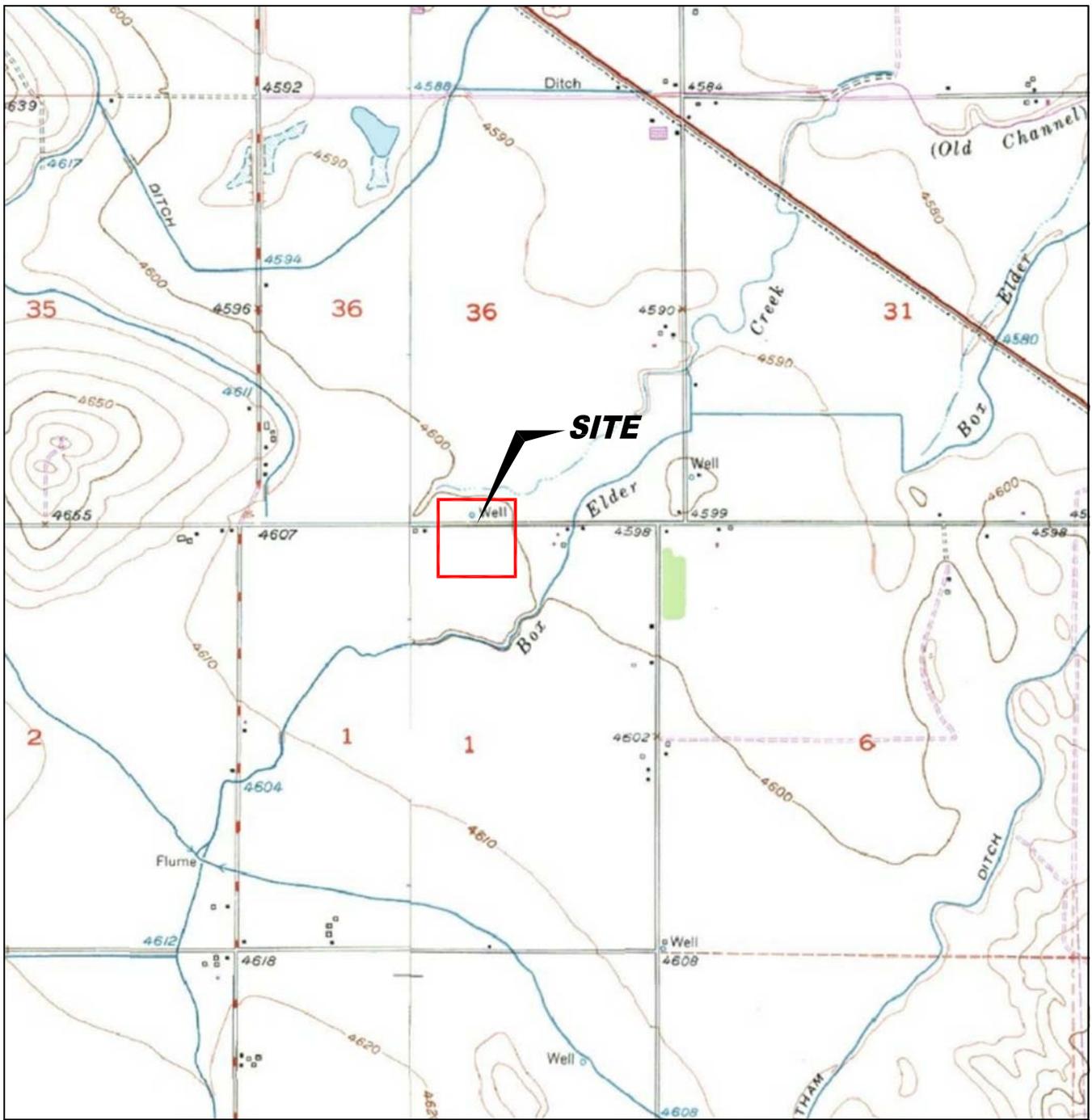
Enclosure

**TABLE 1**  
**SUMMARY OF GROUND WATER CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**McDERMED 2-1, WELD COUNTY, COLORADO**  
**FREMONT PROJECT C020-022**

<b>SAMPLE LOCATION</b>	<b>DATE</b>	<b>BENZENE (µg/L)</b>	<b>TOLUENE (µg/L)</b>	<b>ETHYL BENZENE (µg/L)</b>	<b>TOTAL XYLENES (µg/L)</b>	<b>TOC ELEVATION (feet)</b>	<b>DEPTH TO GROUND WATER (ft)</b>	<b>GROUND WATER ELEVATION (ft)</b>	<b>FREE PRODUCT THICKNESS (ft)</b>
MW-1	05/27/20	29	<1.0	<1.0	<2.0	100.00	7.89	92.11	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.80	94.20	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.82	93.18	NP
MW-2	05/27/20	<1.0	<1.0	<1.0	<2.0	100.51	8.43	92.08	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		6.35	94.16	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0		7.32	93.19	NP
MW-3	05/27/20	<1.0	<1.0	<1.0	<2.0	99.98	7.95	92.03	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.88	94.10	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.85	93.13	NP
MW-4	05/27/20	2.4	<1.0	2.2	35	100.08	8.06	92.02	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.97	94.11	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.95	93.13	NP
MW-5	05/27/20	<1.0	<1.0	<1.0	<2.0	99.58	7.65	91.93	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.57	94.01	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.65	92.93	NP
MW-6	05/27/20	<1.0	<1.0	<1.0	<1.0	99.68	7.58	92.10	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.59	94.09	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.13	93.55	NP
MW-7	05/27/20	<1.0	<1.0	<1.0	<2.0	99.40	7.17	92.23	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.15	94.25	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.21	93.19	NP

<b>SAMPLE LOCATION</b>	<b>DATE</b>	<b>BENZENE (µg/L)</b>	<b>TOLUENE (µg/L)</b>	<b>ETHYL BENZENE (µg/L)</b>	<b>TOTAL XYLENES (µg/L)</b>	<b>TOC ELEVATION (feet)</b>	<b>DEPTH TO GROUND WATER (ft)</b>	<b>GROUND WATER ELEVATION (ft)</b>	<b>FREE PRODUCT THICKNESS (ft)</b>
MW-8	05/27/20	<1.0	<1.0	<1.0	<2.0	99.66	7.31	92.35	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.35	94.31	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.53	93.13	NP
COGCC Table 910 Limits			5	560	700	1400			

Bold faced values exceed the COGCC Table 910-1 concentrations



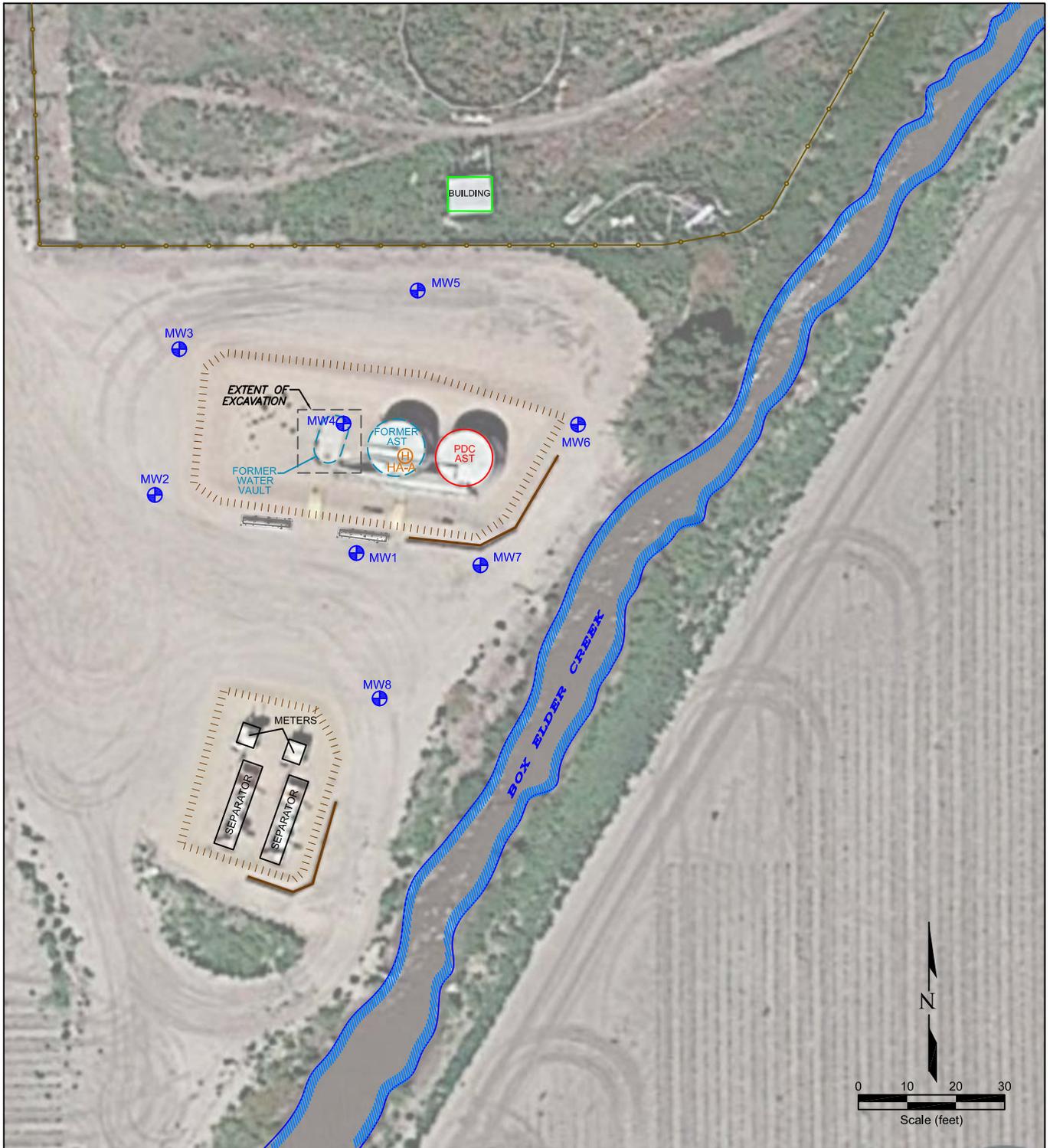
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**NOBLE ENERGY, INC. ~ McDERMED 2-1**  
NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°  
Weld County, Colorado

Project No. <b>CO20-022</b>	Prepared by	Drawn by <b>TA</b>
Date <b>12/15/20</b>	Reviewed by <b>EB</b>	Filename <b>20022T</b>





**LEGEND**

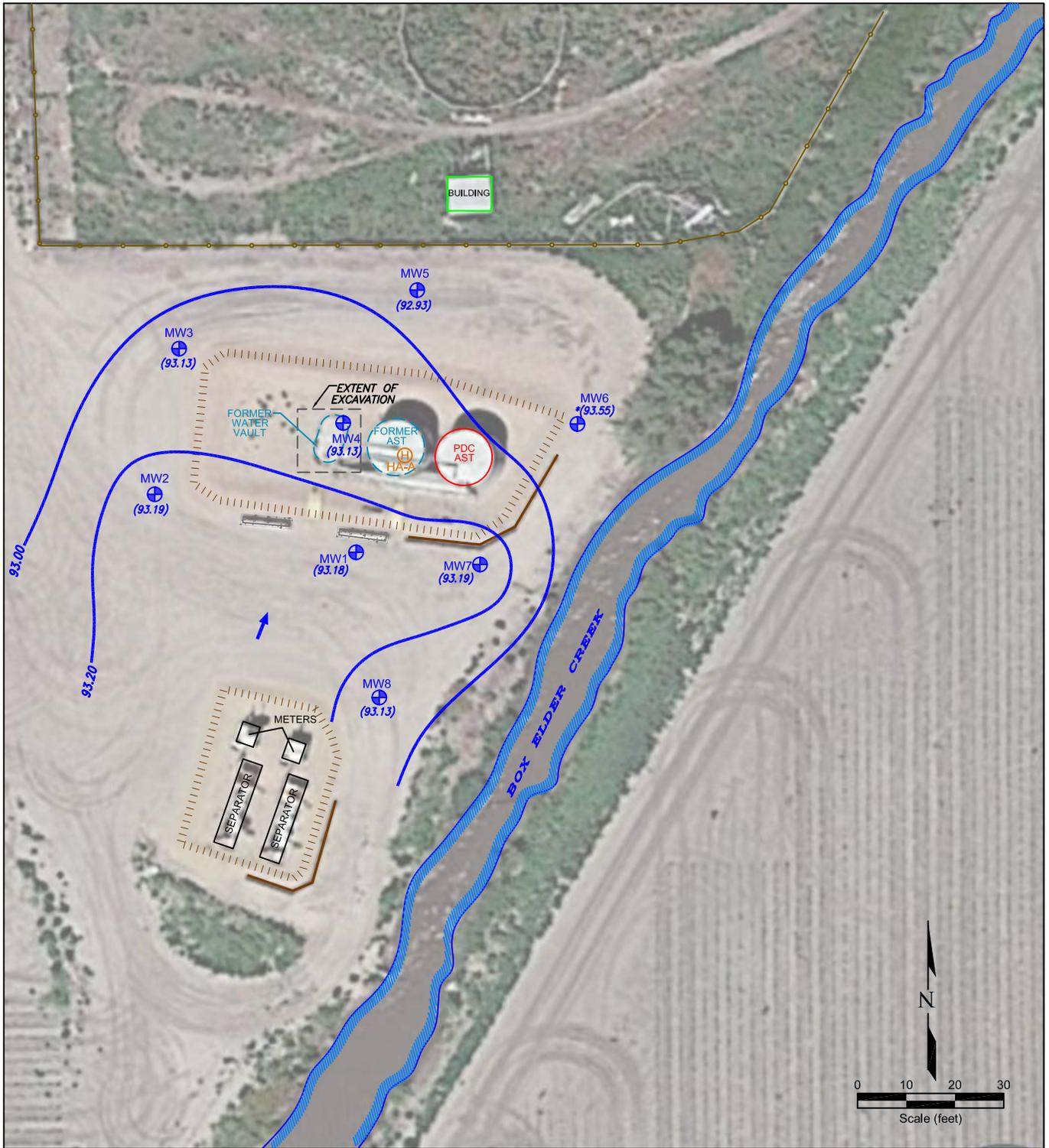
	MONITORING WELL		FORMER FACILITY
	HAND AUGURED WELL		BUILDING
	ABOVE GROUND STORAGE TANK		CONTAINMENT BERM
	CONCRETE BARRICADES		CONTAINMENT WALL
			FENCE LINE
			EXTENT OF EXCAVATION

**Figure 2  
SITE MAP**

**NOBLE ENERGY, INC. ~ McDERMED 2-1**  
 NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°  
 Weld County, Colorado

Project No. <b>CO20-022</b>	Prepared by	Drawn by <b>TA</b>
Date <b>12/15/20</b>	Reviewed by <b>EB</b>	Filename <b>20022QQ</b>





**LEGEND**

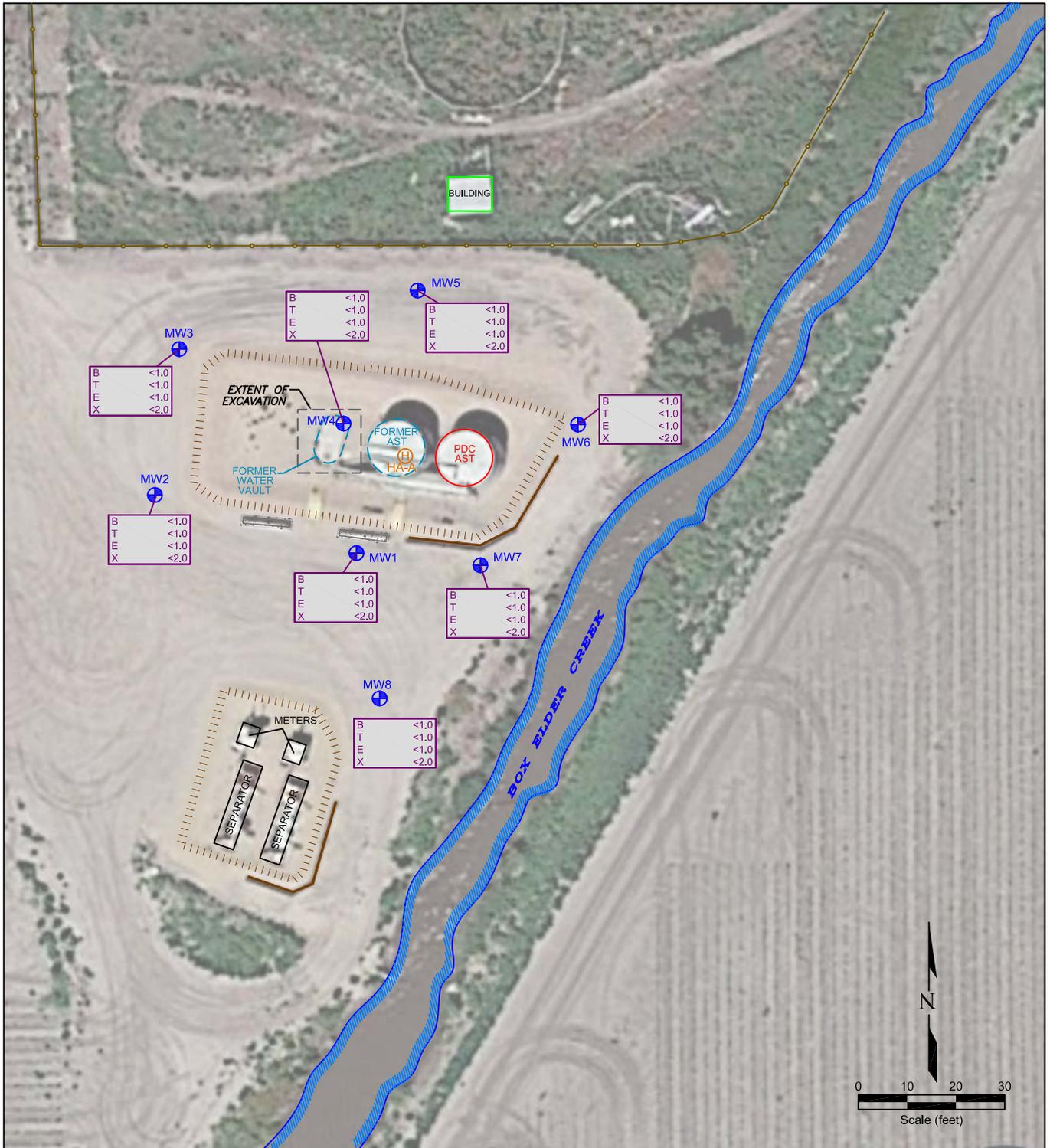
- |  |   |  |                      |
|--|---|--|----------------------|
|  | MONITORING WELL                                       |  | FORMER FACILITY      |
|  | HAND AUGURED WELL                                     |  | BUILDING             |
|  | ABOVE GROUND STORAGE TANK                             |  | CONTAINMENT BERM     |
|  | CONCRETE BARRICADES                                   |  | CONTAINMENT WALL     |
|  |   |  | FENCE LINE           |
|  |   |  | EXTENT OF EXCAVATION |
|  | GROUND WATER ELEVATION<br>(feet above mean sea level) |  |                      |
|  | WATER TABLE CONTOUR<br>(feet above mean sea level)    |  |                      |
|  | INFERRED GROUND WATER FLOW DIRECTION                  |  |                      |
|  | NOT USED IN COTOURING                                 |  |                      |

Figure 3  
**INFERRED GROUNDWATER CONTOUR MAP**  
 November 19, 2020

**NOBLE ENERGY, INC. ~ McDERMED 2-1**  
 NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°  
 Weld County, Colorado

Project No. <b>CO20-022</b>	Prepared by	Drawn by <b>TA</b>
Date <b>12/18/20</b>	Reviewed by <b>EB</b>	Filename <b>20022QQ</b>





**LEGEND**

	MONITORING WELL		FORMER FACILITY
	HAND AUGURED WELL		BUILDING
	ABOVE GROUND STORAGE TANK		CONTAINMENT BERM
	CONCRETE BARRICADES		CONTAINMENT WALL
	<1.0 BENZENE (ug/L)		FENCE LINE
	<1.0 TOLUENE (ug/L)		EXTENT OF EXCAVATION
	<1.0 ETHYLBENZENE (ug/L)		
	<2.0 TOTAL XYLENES (ug/L)		

Figure 4  
**GROUND WATER CHEMISTRY MAP**  
 November 19, 2020

**NOBLE ENERGY, INC. ~ McDERMED 2-1**  
 NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°  
 Weld County, Colorado

Project No. <b>CO20-022</b>	Prepared by	Drawn by <b>TA</b>
Date <b>12/15/20</b>	Reviewed by <b>EB</b>	Filename <b>20022QQ</b>



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 30, 2020

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - McDermed 2-1  
Work Order #2011255

Enclosed are the results of analyses for samples received by Summit Scientific on 11/19/20 16:30. 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 initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/30/20 16:24

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2011255-01	Water	11/19/20 00:00	11/19/20 16:30
MW-2	2011255-02	Water	11/19/20 00:00	11/19/20 16:30
MW-3	2011255-03	Water	11/19/20 00:00	11/19/20 16:30
MW-4	2011255-04	Water	11/19/20 00:00	11/19/20 16:30
MW-5	2011255-05	Water	11/19/20 00:00	11/19/20 16:30
MW-6	2011255-06	Water	11/19/20 00:00	11/19/20 16:30
MW-7	2011255-07	Water	11/19/20 00:00	11/19/20 16:30
MW-8	2011255-08	Water	11/19/20 00:00	11/19/20 16:30

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>

2011255

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

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

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

City/State/Zip: Wellington, CO 80549

Bill to: Jacob

Phone: 303-956-8714

Project Name: Noble-McDermid 2-1

Sampler Name: EB

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	SAR	EC		pH		
1	MW-1	11/19/20		2			X		X					X								
2	MW-2																					
3	MW-3																					
4	MW-4																					
5	MW-5																					
6	MW-6																					
7	MW-7																					
8	MW-8																					
9																						
10																						

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>11/19/20 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/19/2020 1630</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/>	
				Sample Integrity:	30
				Temperature Upon Receipt:	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

2011255

Sample Receipt Checklist

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

Client: FREMONT Client Project ID: NOBLE - MCDERMED 2 - 1

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

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

Temp (°C)	3.8
-----------	-----

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 (excluding cooling) <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"/>	

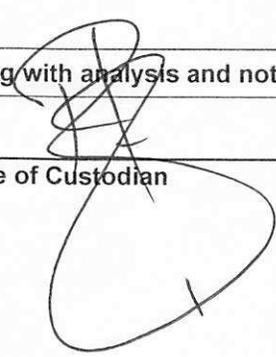
Additional Comments (if any):

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

RZ  
Custodian Printed Name or Initials

Signature of Custodian

11/19/20  
Date/Time





Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/20 16:24

**MW-1**  
**2011255-01 (Water)**

**Summit Scientific**

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

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	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 - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/20 16:24

**MW-2**  
**2011255-02 (Water)**

**Summit Scientific**

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

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		117 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		119 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %		21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/20 16:24

**MW-3**  
**2011255-03 (Water)**

**Summit Scientific**

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

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		115 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.9 %		21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/20 16:24

**MW-4**  
**2011255-04 (Water)**

**Summit Scientific**

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

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		97.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		116 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %		21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/20 16:24

**MW-5**  
**2011255-05 (Water)**

**Summit Scientific**

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

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		117 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %		21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/20 16:24

**MW-6**  
**2011255-06 (Water)**

**Summit Scientific**

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

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		118 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %		21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/20 16:24

**MW-7**  
**2011255-07 (Water)**

**Summit Scientific**

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

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		114 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %		21-167		"	"	"	"	

Summit Scientific

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/20 16:24

**MW-8**  
**2011255-08 (Water)**

**Summit Scientific**

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

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		119 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		112 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %		21-167		"	"	"	"	

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Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/20 16:24

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

**Summit Scientific**

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

**Batch BDK0278 - EPA 5030 Water MS**

**Blank (BDK0278-BLK1)**

Prepared: 11/23/20 Analyzed: 11/24/20

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Surrogate: 1,2-Dichloroethane-d4	15.2		"	13.3		114		23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101		20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.8		21-167			

**LCS (BDK0278-BS1)**

Prepared: 11/23/20 Analyzed: 11/24/20

Benzene	47.5	1.0	ug/l	50.0		95.0		51-132			
Toluene	49.3	1.0	"	50.0		98.6		51-138			
Ethylbenzene	49.9	1.0	"	50.0		99.9		58-146			
m,p-Xylene	89.4	2.0	"	100		89.4		57-144			
o-Xylene	50.4	1.0	"	50.0		101		53-146			
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.3		112		23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.5		20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.5		21-167			

**Matrix Spike (BDK0278-MS1)**

Source: 2011285-02

Prepared: 11/23/20 Analyzed: 11/24/20

Benzene	60.0	1.0	ug/l	50.0	ND	120		34-141			
Toluene	67.2	1.0	"	50.0	1.71	131		27-151			
Ethylbenzene	52.7	1.0	"	50.0	ND	105		29-160			
m,p-Xylene	52.5	2.0	"	100	1.18	51.3		20-166			
o-Xylene	53.5	1.0	"	50.0	ND	107		33-159			
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.3		91.1		23-173			
Surrogate: Toluene-d8	16.5		"	13.3		124		20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8		21-167			

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Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 11/30/20 16:24

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

**Summit Scientific**

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

**Batch BDK0278 - EPA 5030 Water MS**

Matrix Spike Dup (BDK0278-MSD1)	Source: 2011285-02			Prepared: 11/23/20 Analyzed: 11/24/20					
Benzene	68.7	1.0	ug/l	50.0	ND	137	34-141	13.6	30
Toluene	53.3	1.0	"	50.0	1.71	103	27-151	23.2	30
Ethylbenzene	50.5	1.0	"	50.0	ND	101	29-160	4.22	30
m,p-Xylene	50.7	2.0	"	100	1.18	49.5	20-166	3.45	30
o-Xylene	51.4	1.0	"	50.0	ND	103	33-159	4.14	30
Surrogate: 1,2-Dichloroethane-d4	15.7		"	13.3		118	23-173		
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170		
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167		

Summit Scientific

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Project: Noble - McDermed 2-1

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/30/20 16:24

### 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