

FREMONT ENVIRONMENTAL INC.

July 5, 2021

Mr. Jacob Evans
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Groundwater Data Submittal**
 McDermid 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 McDermid 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.

Since groundwater concentrations in the site's monitoring wells have achieved four consecutive quarters of COGCC-compliant concentrations, Noble should request that no further groundwater monitoring is required at this site. Residual soil impacts are present in the unsaturated zone immediately adjacent to a PDC Energy aboveground storage tank. After this tank is removed, Noble can remove those soil impacts and request that a No Further Action (NFA) determination be provided by the COGCC.

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. Hennehan, P.E.
Senior Consultant

Enclosure

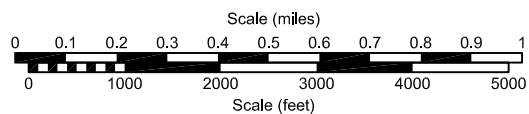
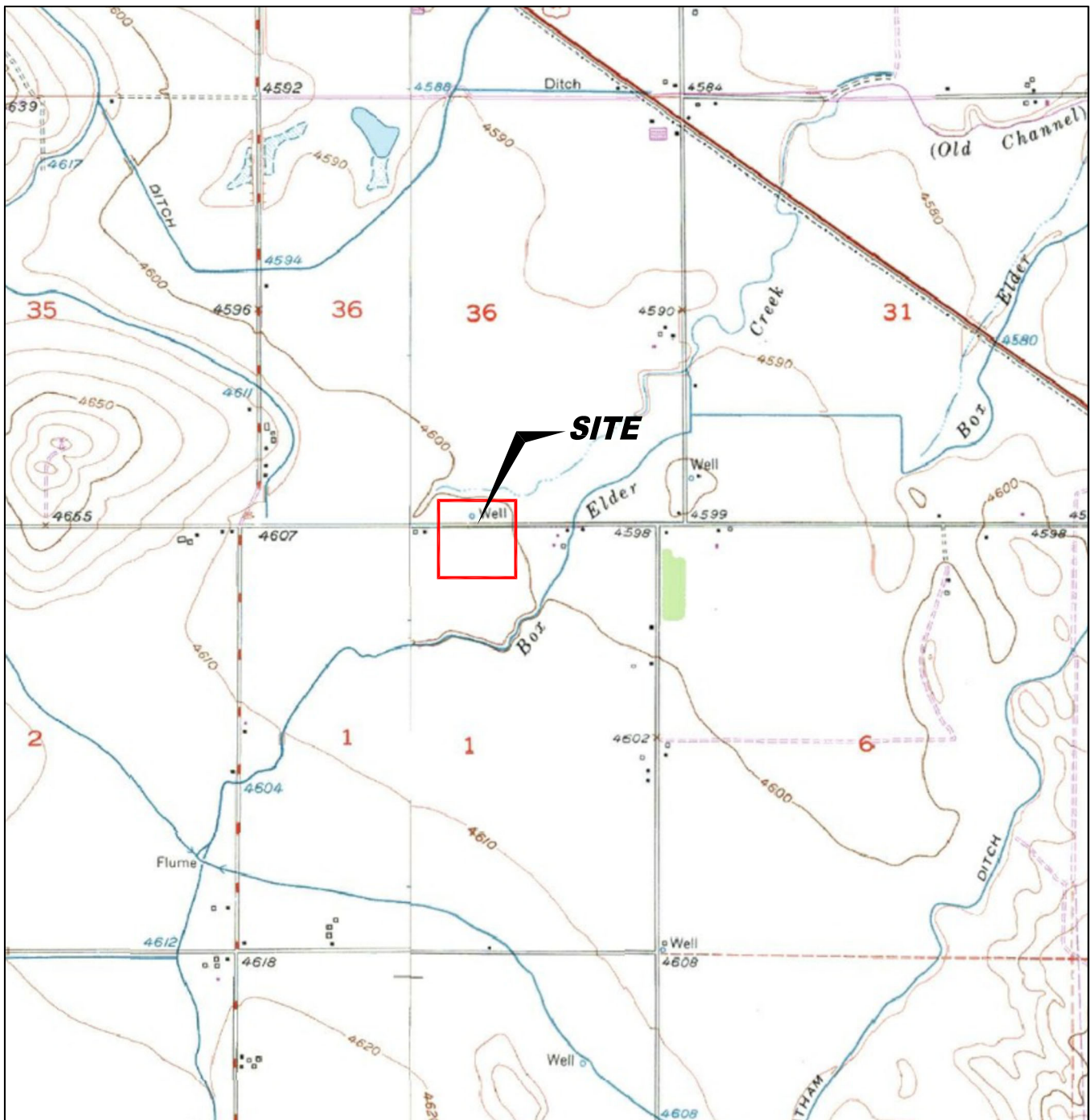
1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)

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

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	1,2,4 TRIMETHYL-BENZENE (µg/L)	1,3,5 TRIMETHYL-BENZENE (µg/L)	NAPHTHALENE (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	05/27/20	29	<1.0	<1.0	<2.0	NA	NA	NA	100.00	7.89	92.11	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		5.80	94.20	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		6.82	93.18	NP
	02/17/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.25	91.75	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.76	92.24	NP
MW-2	05/27/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	100.51	8.43	92.08	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		6.35	94.16	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		7.32	93.19	NP
	02/17/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.76	91.75	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.26	92.25	NP
MW-3	05/27/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	99.98	7.95	92.03	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		5.88	94.10	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		6.85	93.13	NP
	02/17/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.34	91.64	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.78	92.20	NP
MW-4	05/27/20	2.4	<1.0	2.2	35	NA	NA	NA	100.08	8.06	92.02	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		5.97	94.11	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		6.95	93.13	NP
	02/17/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.38	91.70	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.88	92.10	NP
MW-5	05/27/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	99.58	7.65	91.93	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		5.57	94.01	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		6.65	92.93	NP
	02/17/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.97	91.61	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.47	92.51	NP
MW-6	05/27/20	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	99.68	7.58	92.10	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		5.59	94.09	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		6.13	93.55	NP
	02/17/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.07	91.61	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	1,2,4 TRIMETHYL-BENZENE (µg/L)	1,3,5 TRIMETHYL-BENZENE (µg/L)	NAPHTHALENE (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-6	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.68	7.33	92.65	NP
MW-7	05/27/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	99.40	7.17	92.23	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		5.15	94.25	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		6.21	93.19	NP
	02/17/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.64	91.76	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		6.93	93.05	NP
MW-8	05/27/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	99.66	7.31	92.35	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		5.35	94.31	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		6.53	93.13	NP
	02/17/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.80	91.86	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.05	92.93	NP
Table 915-1 Standards		5	560	700	1,400	67	67	140				

Bold faced values exceed the COGCC Table 915-1 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.
CO20-022

Prepared by

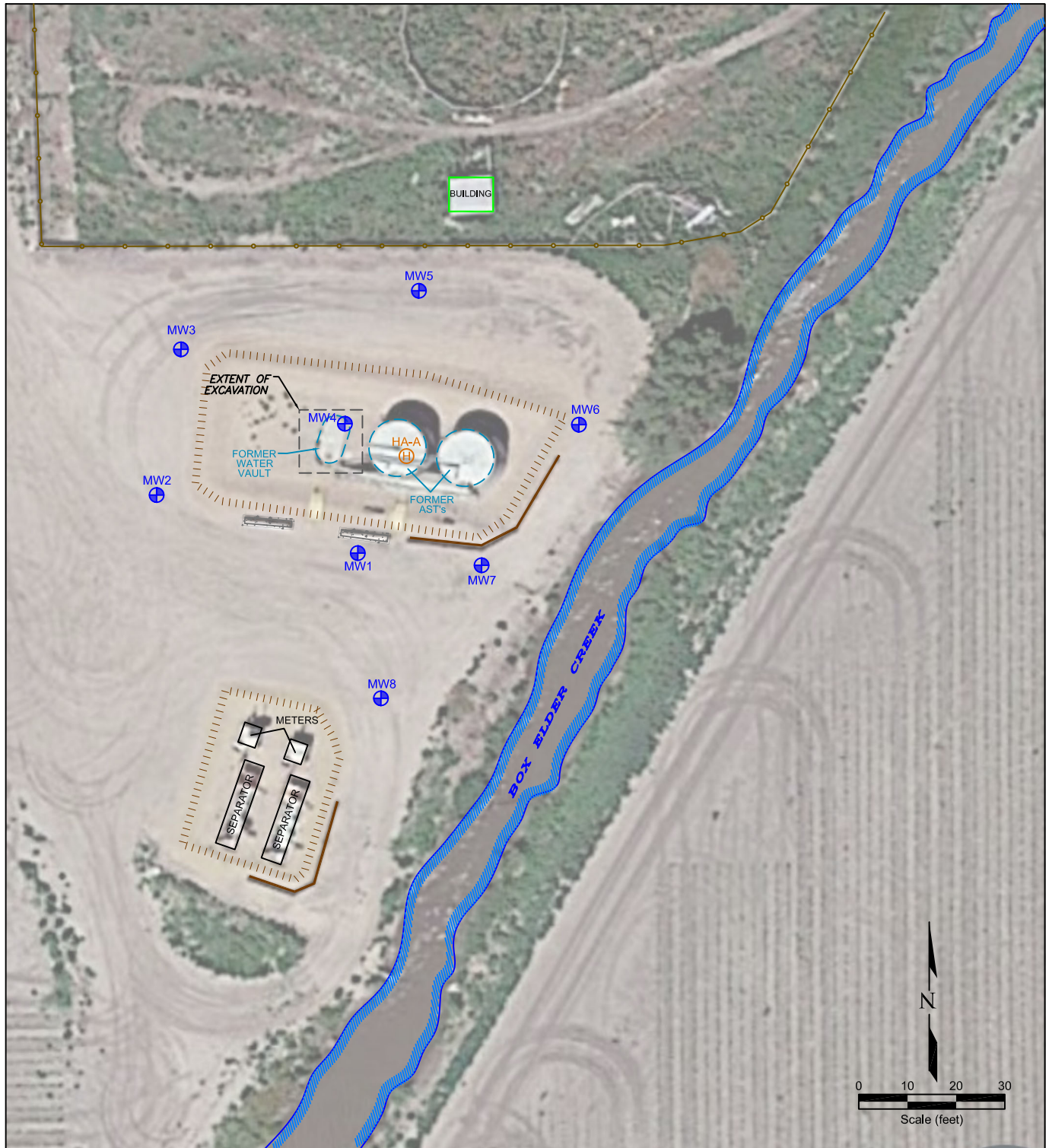
Drawn by
TA

Date
06/30/21

Reviewed by
EB

Filename
20022T





LEGEND











-  MONITORING WELL
-  HAND AUGURED WELL
-  ABOVE GROUND STORAGE TANK
-  CONCRETE BARRICADES
-  FORMER FACILITY
-  BUILDING
-  CONTAINMENT BERM
-  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.
CO20-022

Prepared by

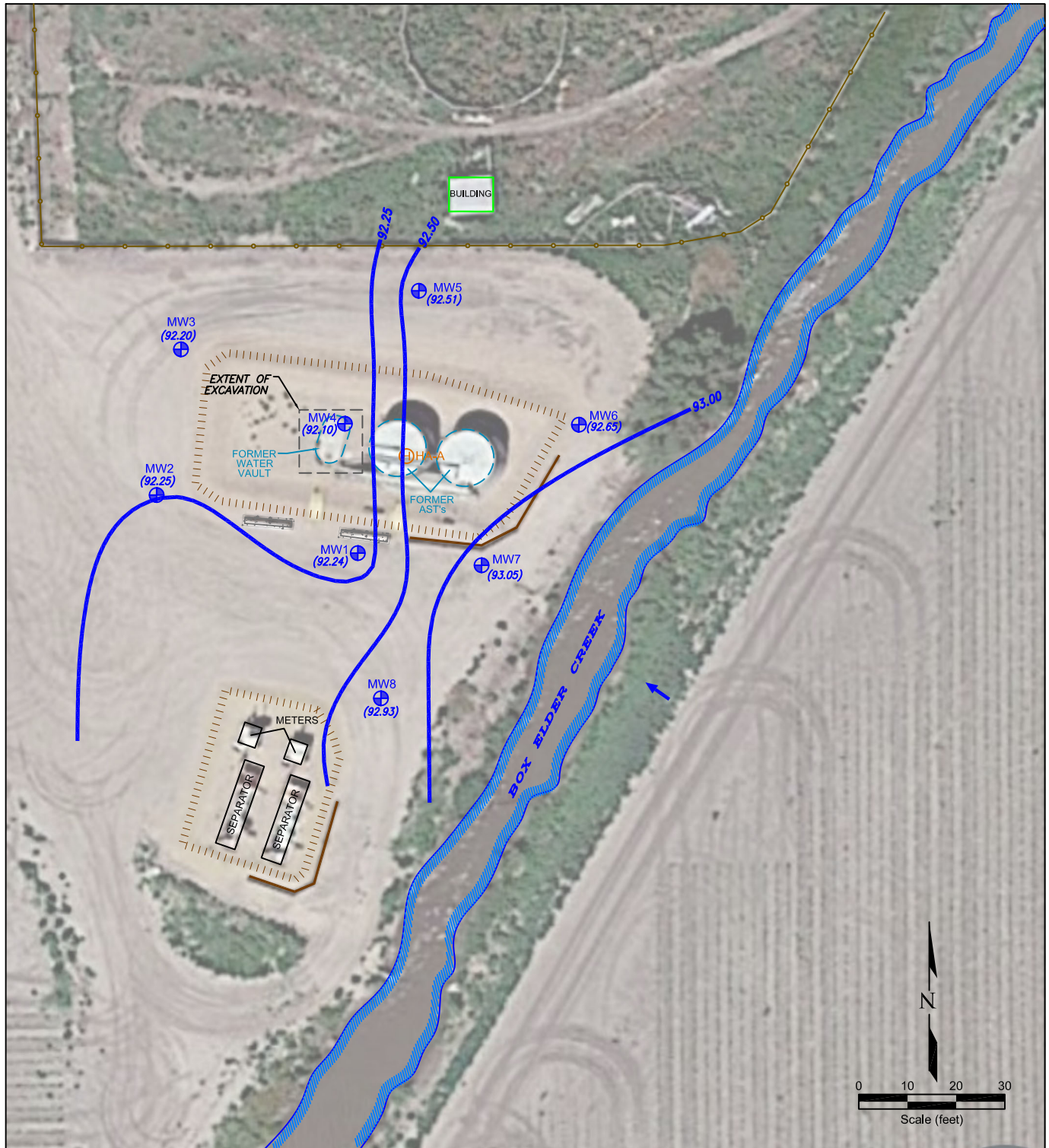
Drawn by
TA

Date
06/30/21

Reviewed by
EB

Filename
20022QQ





LEGEND

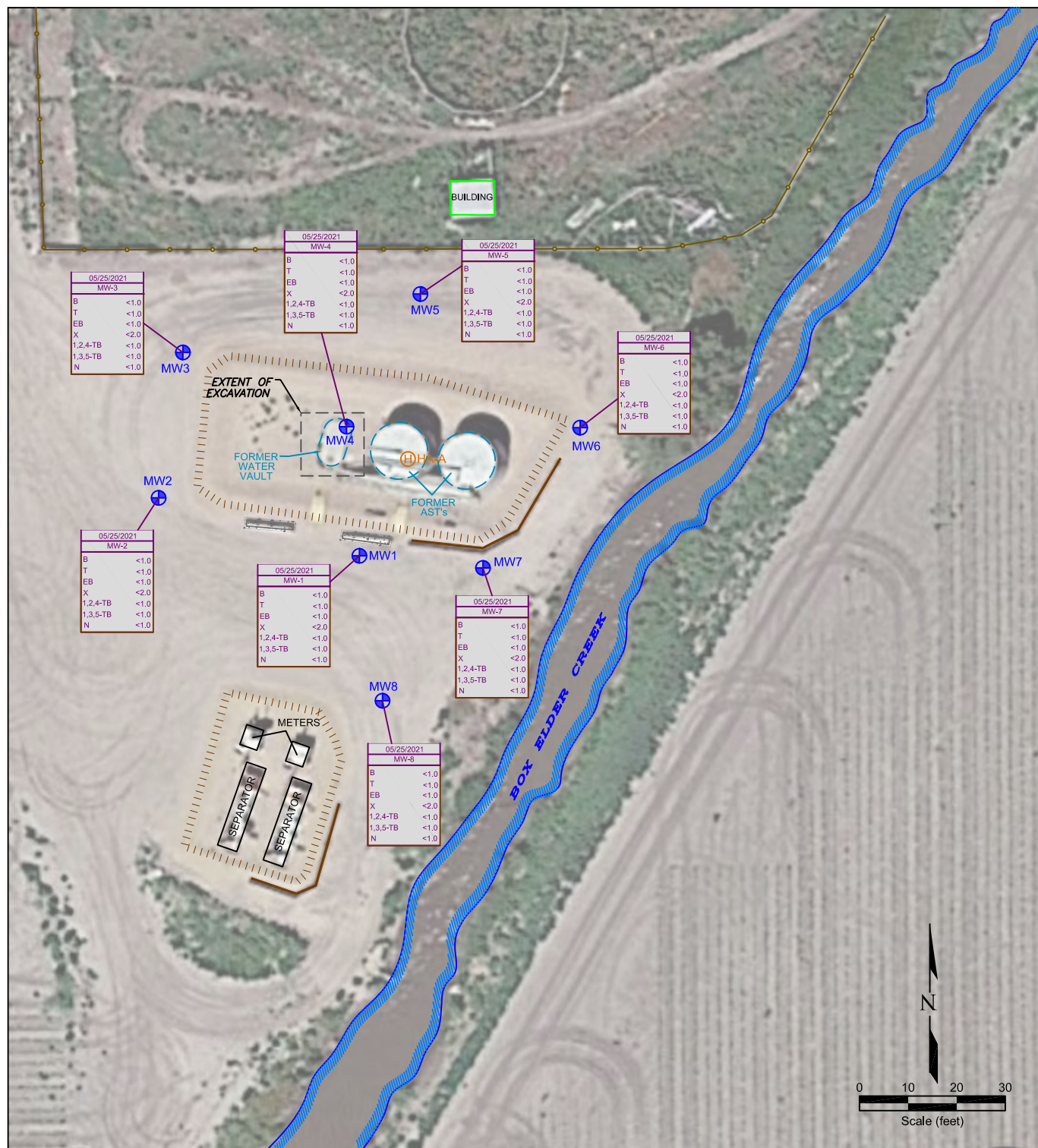
	MONITORING WELL	(91.70)	GROUND WATER ELEVATION (feet above mean sea level)
	HAND AUGURED WELL		
	ABOVE GROUND STORAGE TANK		WATER TABLE CONTOUR (feet above mean sea level)
	CONCRETE BARRICADES		INFERRED GROUND WATER FLOW DIRECTION
	FORMER FACILITY		
	BUILDING		
	CONTAINMENT BERM		
	CONTAINMENT WALL		
	FENCE LINE		
	EXTENT OF EXCAVATION		

Figure 3
INFERRED GROUNDWATER CONTOUR MAP
 May 25, 2021

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

Project No. CO20-022	Prepared by	Drawn by TA
Date 06/30/21	Reviewed by EB	Filename 20022QQ





LEGEND

	MONITORING WELL	05/25/2021	DATE SAMPLED
	HAND AUGURED WELL	MW-1	SAMPLE ID
	ABOVE GROUND STORAGE TANK	B	BENZENE (ug/L)
	CONCRETE BARRICADES	T	TOLUENE (ug/L)
	FORMER FACILITY	EB	ETHYLBENZENE (ug/L)
	BUILDING	X	TOTAL XYLENES (ug/L)
	CONTAINMENT BERM	1,2,4-TB	1,2,4-TRIMETHYLBENZENE (ug/L)
	CONTAINMENT WALL	1,3,5-TB	1,3,5-TRIMETHYLBENZENE (ug/L)
	FENCE LINE	N	NAPHTHALENE (ug/L)
	EXTENT OF EXCAVATION		

Figure 4
GROUNDWATER CHEMISTRY MAP
May 25, 2021

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

Project No. CO20-022	Prepared by TA	Drawn by TA	
Date 06/30/21	Reviewed by EB	Filename 20022QQ	

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

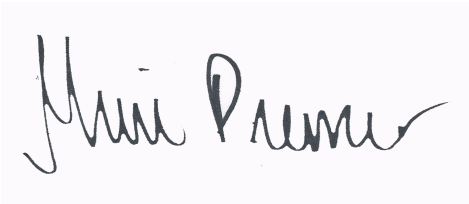
303.277.9310

June 09, 2021

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - McDermed 2-1
Work Order #2105513

Enclosed are the results of analyses for samples received by Summit Scientific on 05/28/21 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2105513-01	Water	05/25/21 00:00	05/28/21 16:00
MW-2	2105513-02	Water	05/25/21 00:00	05/28/21 16:00
MW-3	2105513-03	Water	05/25/21 00:00	05/28/21 16:00
MW-4	2105513-04	Water	05/25/21 00:00	05/28/21 16:00
MW-5	2105513-05	Water	05/25/21 00:00	05/28/21 16:00
MW-6	2105513-06	Water	05/25/21 00:00	05/28/21 16:00
MW-7	2105513-07	Water	05/25/21 00:00	05/28/21 16:00
MW-8	2105513-08	Water	05/25/21 00:00	05/28/21 16:00

Summit Scientific

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

Summit Scientific

S₂

2105513

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

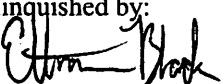
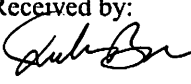
Phone: 303-956-8714

Project Name: Noble-McDermid 2-1

Sampler Name: Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX/TMS	Naphthalene	GRO	DRO	SAR	EC	pH		
1	MW-1	5/25/21		3			X		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: 	Date/Time: 5/28/21 1230	Received by: 	Date/Time: 5/28/21 1600	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 5 Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

2105513

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)	5
-----------	---

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? 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"/>	On ice.
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? 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):

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

JB
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

5/25/21
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

MW-1
2105513-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEF0133	06/05/21	06/06/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		63.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		119 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	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 - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

MW-2
2105513-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEF0133	06/05/21	06/06/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		72.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		116 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

MW-3
2105513-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEF0133	06/05/21	06/06/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		74.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		114 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

MW-4
2105513-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEF0133	06/05/21	06/06/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		66.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		114 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

MW-5
2105513-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEF0133	06/05/21	06/06/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		71.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		118 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

MW-6
2105513-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEF0133	06/05/21	06/06/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		71.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		111 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

MW-7
2105513-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEF0133	06/05/21	06/06/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		67.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		117 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

MW-8
2105513-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEF0133	06/05/21	06/06/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/25/21 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		73.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		111 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	21-167		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BEF0133 - EPA 5030 Water MS

Blank (BEF0133-BLK1)

Prepared: 06/05/21 Analyzed: 06/06/21

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.1		"	13.3		83.5	23-173			
Surrogate: Toluene-d8	15.8		"	13.3		119	20-170			
Surrogate: 4-Bromofluorobenzene	14.5		"	13.3		109	21-167			

LCS (BEF0133-BS1)

Prepared: 06/05/21 Analyzed: 06/06/21

Benzene	28.8	1.0	ug/l	33.3		86.4	51-132			
Toluene	42.1	1.0	"	33.3		126	51-138			
Ethylbenzene	36.0	1.0	"	33.3		108	58-146			
m,p-Xylene	70.2	2.0	"	66.7		105	57-144			
o-Xylene	35.2	1.0	"	33.3		106	53-146			
Naphthalene	36.1	1.0	"	33.3		108	70-130			
1,2,4-Trimethylbenzene	33.3	1.0	"	33.3		99.9	70-130			
1,3,5-Trimethylbenzene	33.3	1.0	"	33.3		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	8.53		"	13.3		64.0	23-173			
Surrogate: Toluene-d8	15.1		"	13.3		113	20-170			
Surrogate: 4-Bromofluorobenzene	14.2		"	13.3		107	21-167			

Matrix Spike (BEF0133-MS1)

Source: 2105513-01

Prepared: 06/05/21 Analyzed: 06/06/21

Benzene	27.8	1.0	ug/l	33.3	ND	83.6	34-141			
Toluene	43.2	1.0	"	33.3	ND	129	27-151			
Ethylbenzene	38.1	1.0	"	33.3	ND	114	29-160			
m,p-Xylene	73.8	2.0	"	66.7	ND	111	20-166			
o-Xylene	36.5	1.0	"	33.3	ND	109	33-159			
Naphthalene	40.2	1.0	"	33.3	ND	121	70-130			
1,2,4-Trimethylbenzene	35.7	1.0	"	33.3	ND	107	70-130			
1,3,5-Trimethylbenzene	35.6	1.0	"	33.3	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	7.48		"	13.3		56.1	23-173			
Surrogate: Toluene-d8	15.1		"	13.3		113	20-170			
Surrogate: 4-Bromofluorobenzene	14.2		"	13.3		106	21-167			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEF0133 - EPA 5030 Water MS

Matrix Spike Dup (BEF0133-MSD1)

Source: 2105513-01

Prepared: 06/05/21 Analyzed: 06/06/21

Benzene	28.0	1.0	ug/l	33.3	ND	84.1	34-141	0.680	30	
Toluene	44.2	1.0	"	33.3	ND	133	27-151	2.34	30	
Ethylbenzene	36.9	1.0	"	33.3	ND	111	29-160	3.20	30	
m,p-Xylene	72.7	2.0	"	66.7	ND	109	20-166	1.47	30	
o-Xylene	36.5	1.0	"	33.3	ND	110	33-159	0.164	30	
Naphthalene	35.2	1.0	"	33.3	ND	106	70-130	13.1	30	
1,2,4-Trimethylbenzene	34.6	1.0	"	33.3	ND	104	70-130	3.10	30	
1,3,5-Trimethylbenzene	34.8	1.0	"	33.3	ND	104	70-130	2.50	30	
Surrogate: 1,2-Dichloroethane-d4	12.0		"	13.3		89.8	23-173			
Surrogate: Toluene-d8	15.8		"	13.3		119	20-170			
Surrogate: 4-Bromofluorobenzene	14.7		"	13.3		110	21-167			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/09/21 15:30

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