

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

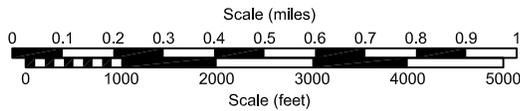
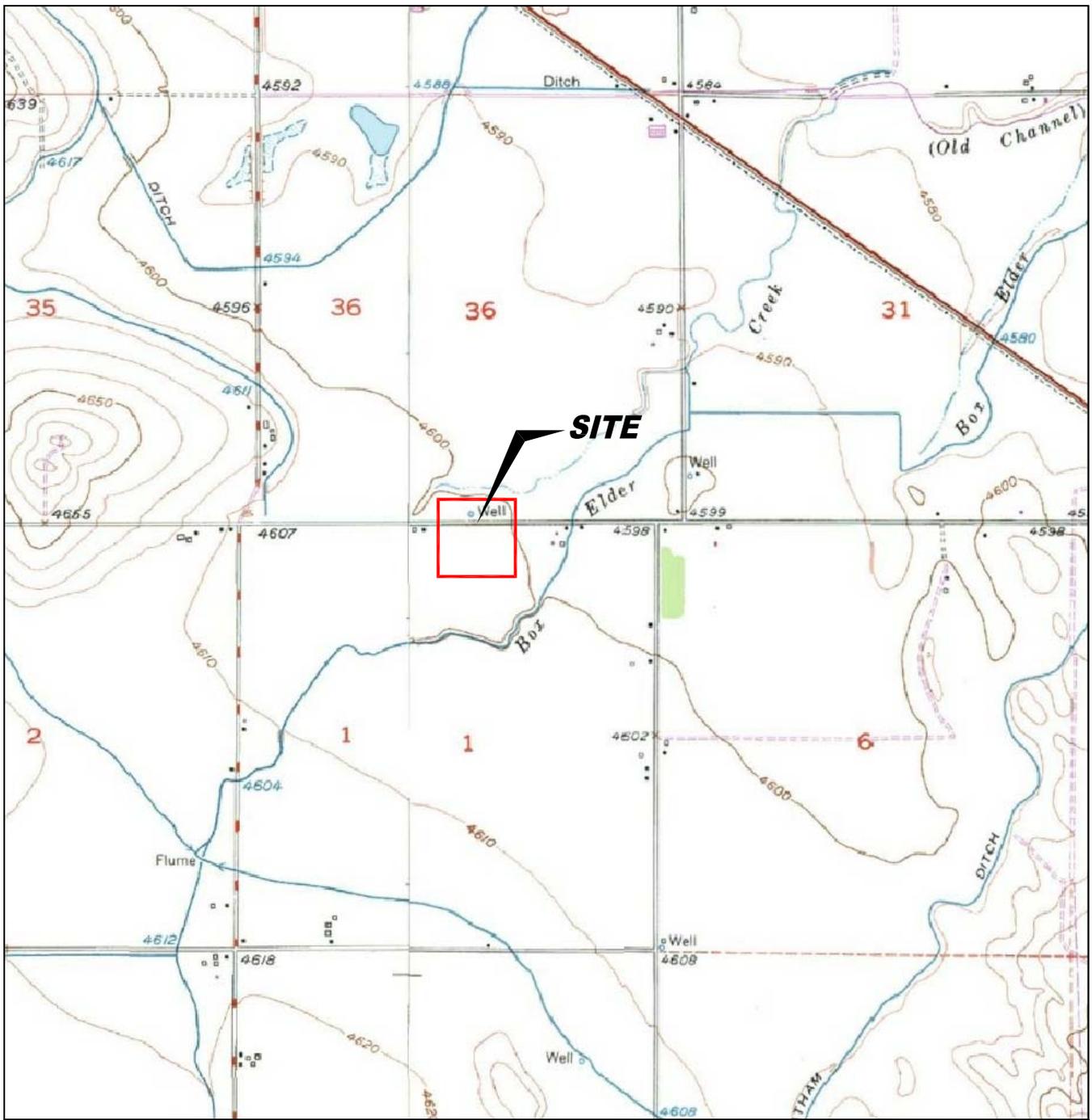
Sample	Depth (ft)	Date Sampled	Location	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Xylenes mg/kg	Naphthalene mg/kg	TPH GRO mg/kg	TPH DRO mg/kg
N Wall 4 Ft	4	4/7/2020	Wall	0.21	<0.005	0.57	13	2.0	810	2200
N Wall 2 Ft	2	4/7/2020	Wall	NA	NA	NA	NA	NA	NA	NA
S Wall 4 Ft	4	4/7/2020	Wall	<0.002	<0.005	<0.005	<0.01	<0.01	<50	160
E Wall 4 Ft	4	4/7/2020	Wall	0.028	<0.005	0.13	4.5	0.86	1100	2000
W Wall 4 Ft	4	4/7/2020	Wall	0.011	<0.005	0.031	0.46	0.25	89	360
Floor 5 Ft	5	4/7/2020	Floor	0.09	<0.005	0.22	0.59	0.3	220	240
Floor 7 Ft	7	4/7/2020	Floor	<0.002	<0.005	<0.005	<0.01	0.011	<50	310
Floor 10 Ft	10	4/7/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	370
N Test Pit 6 Ft	6	4/7/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	110
S Test Pit 6 Ft	6	4/7/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	270
W Test Pit 7 Ft	7	4/7/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	51
COGCC Table 910 Limits				0.17	85	100	175	23	500	500

Bold faced values exceed the COGCC Table 910-1 concentrations

TABLE 2
SUMMARY OF GROUND WATER CHEMISTRY DATA
NOBLE ENERGY INC.
McDERMED 2-1, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C020-022

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)
W1	04/07/20	8.3	<1.0	3.0	35
Table 910-1 Limits		5	560	700	1,400

Bold face values exceed the COGCC limits



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 4/16/20	Reviewed by PH	Filename 20022T





LEGEND

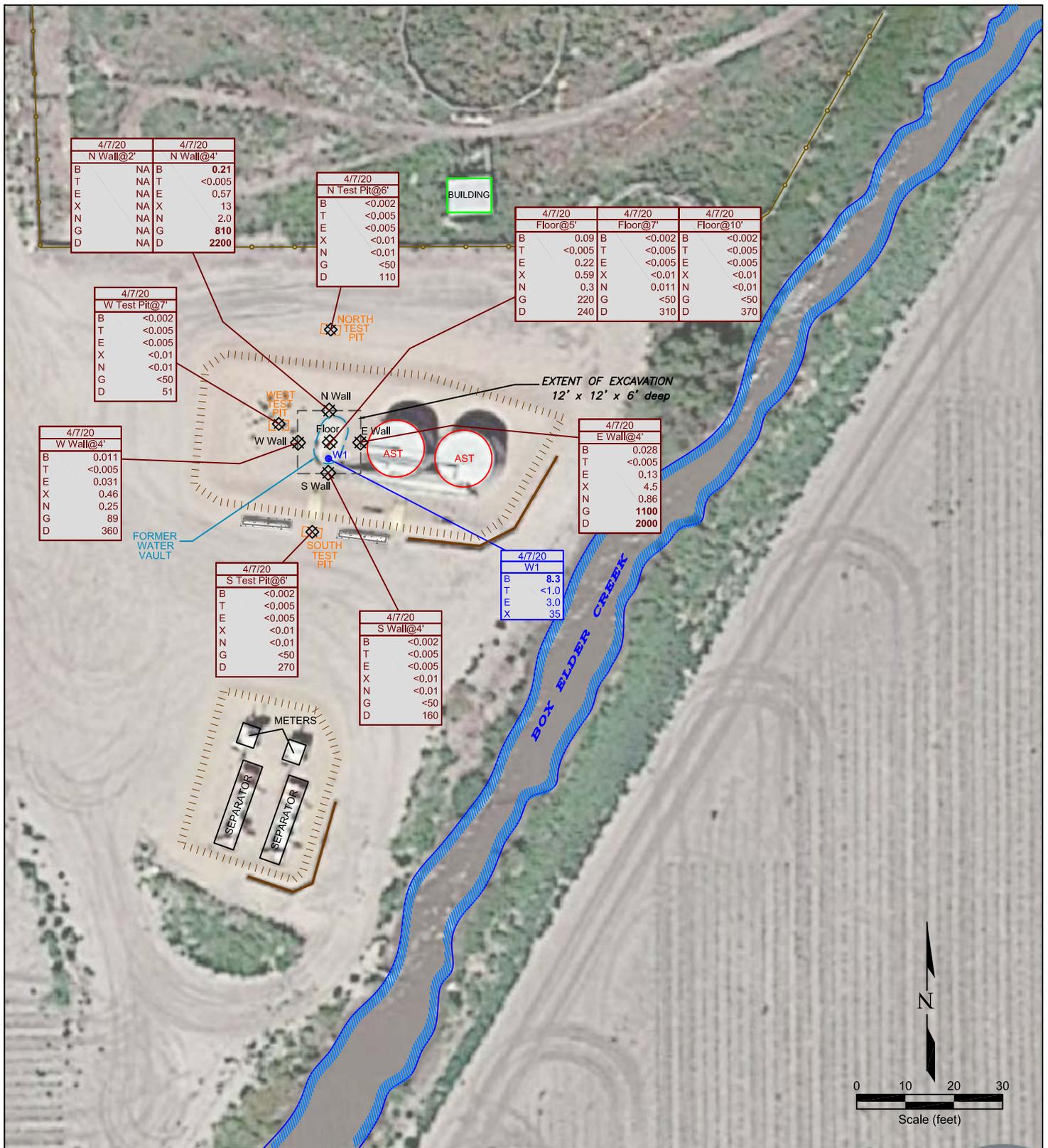
-  ABOVE GROUND STORAGE TANK
-  CONCRETE BARRICADES
-  FORMER FACILITY
-  BUILDING
-  CONTAINMENT BERM
-  CONTAINMENT WALL
-  FENCE LINE
-  EXTENT OF EXCAVATION

**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 TA	Drawn by TA
Date 4/16/20	Reviewed by PH	Filename 20022QQ





LEGEND

	WATER SAMPLE LOCATION	4/7/20	DATE SAMPLED
	SOIL SAMPLE LOCATION	N Wall@4'	DEPTH (ft) and LOCATION
	ABOVE GROUND STORAGE TANK	B 0.21	BENZENE (mg/kg)
	TEST PIT LOCATION	T <0.005	TOLUENE (mg/kg)
	CONCRETE BARRICADES	E 0.57	ETHYLBENZENE (mg/kg)
	FORMER FACILITY	X 13	TOTAL XYLENES (mg/kg)
	BUILDING	N 2.0	NAPHTHALENE (mg/kg)
	CONTAINMENT BERM	G 810	TPH-GRO (mg/kg)
	CONTAINMENT WALL	D 2200	TPH-DRO (mg/kg)
	FENCE LINE	4/7/20	DATE SAMPLED
	EXTENT OF EXCAVATION	W1	SAMPLE ID
		B 8.3	BENZENE (ug/L)
		T <1.0	TOLUENE (ug/L)
		E 3.0	ETHYLBENZENE (ug/L)
		X 35	TOTAL XYLENES (ug/L)

Figure 3
**EXTENT OF EXCAVATION WITH
 GROUND WATER & SOIL CHEMISTRY MAP**
 April 7, 2020

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 4/16/20	Reviewed by PH	Filename 20022QQ



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 15, 2020

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - McDermed 2-1

Work Order #2004071

Enclosed are the results of analyses for samples received by Summit Scientific on 04/07/20 17:28. 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:
04/15/20 13:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N. WALL 4FT	2004071-01	Soil	04/07/20 00:00	04/07/20 17:28
FLOOR 5FT	2004071-02	Soil	04/07/20 00:00	04/07/20 17:28
W1	2004071-03	Water	04/07/20 00:00	04/07/20 17:28
N. WALL 2FT	2004071-04	Soil	04/07/20 00:00	04/07/20 17:28
S. WALL 4FT	2004071-05	Soil	04/07/20 00:00	04/07/20 17:28
E. WALL 4FT	2004071-06	Soil	04/07/20 00:00	04/07/20 17:28
W. WALL 4FT	2004071-07	Soil	04/07/20 00:00	04/07/20 17:28
FLOOR 7FT	2004071-08	Soil	04/07/20 00:00	04/07/20 17:28
FLOOR 10FT	2004071-09	Soil	04/07/20 00:00	04/07/20 17:28
N-TP 6FT	2004071-10	Soil	04/07/20 00:00	04/07/20 17:28
S-TP 6FT	2004071-11	Soil	04/07/20 00:00	04/07/20 17:28
W-TP 7FT	2004071-12	Soil	04/07/20 00:00	04/07/20 17:28

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

2004071.1

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

Page 1 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

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

City/State/Zip: Wellington, CO 80549

Bill to: HOWARD

Phone: 303-956-8714

Project Name: NOBLE - McDERMED 2-1

Sampler Name: HENEHAN

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	N-WALL 4 FT	4/7/20		1			✓			✓				✓	✓	✓	✓				OVERNIGHT
2	FLOOR 5 FT			1						✓				✓	✓	✓	✓				OVERNIGHT
3	WI			2					✓					✓							OVERNIGHT
4	N-WALL 2 FT			1						✓							✓	✓	✓		STANDARD
5	S-WALL 4 FT			1						✓				✓	✓	✓					HOLD
6	E-WALL 4 FT			1						✓											HOLD
7	W-WALL 4 FT			1						✓											HOLD
8	FLOOR 7 FT			1						✓											HOLD
9	FLOOR 10 FT			1						✓											HOLD
10	N-TP 6 FT			1						✓				✓	✓	✓	✓				HOLD
Relinquished by:		Date/Time:		Received by:		Date/Time:		Turn Around Time (Check)				Notes:									
PATRICK 4/7/20 16:35				[Signature] 04-07-2020 16:35				Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>				Standard <input checked="" type="checkbox"/>									
Relinquished by:		Date/Time:		Received by:		Date/Time:		48 hours <input type="checkbox"/>				BOTH <input checked="" type="checkbox"/>									
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:				Temperature Upon Receipt: 10.1									
								Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				ONICE									

Sample Receipt Checklist

S2 Work Order 2004071

Client: Fremont/Noble Client Project ID: 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)	6.7
-----------	-----

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.	✓			On Ice
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?	✓			Some same day
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		✓		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
<u>Additional Comments (if any):</u>				

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

MP Muri Premer 4/7/20
 Custodian Printed Name or Initials Signature of Custodian Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/20 13:18

N. WALL 4FT
2004071-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.21	0.0020	mg/kg	1	2004077	04/07/20	04/07/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.57	0.0050	"	"	"	"	"	"	
Xylenes (total)	13	0.10	"	10	"	"	"	"	E
Naphthalene	2.0	0.10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	810	50	"	"	"	"	"	"	E

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	151 %	23-173	"	"	"	"	"	"	
Surrogate: Toluene-d8	83.6 %	20-170	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	279 %	21-167	"	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2200	50	mg/kg	1	2004079	04/07/20	04/07/20	EPA 8015M	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	126 %	30-150	"	"	"	"	"	"	

Summit Scientific

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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:
 04/15/20 13:18

FLOOR 5FT
2004071-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.090	0.0020	mg/kg	1	2004077	04/07/20	04/07/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.22	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.59	0.10	"	10	"	"	"	"	
Naphthalene	0.30	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	220	50	"	10	"	"	"	"	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		160 %	23-173	"	"	"	"	"	
Surrogate: Toluene-d8		94.6 %	20-170	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		152 %	21-167	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	240	50	mg/kg	1	2004079	04/07/20	04/07/20	EPA 8015M	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		120 %	30-150	"	"	"	"	"	

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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:
 04/15/20 13:18

W1

2004071-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	8.3	1.0		ug/l	1	2004075	04/07/20	04/07/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	3.0	1.0		"	"	"	"	"	"	
Xylenes (total)	35	2.0		"	"	"	"	"	"	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		77.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		21-167		"	"	"	"	

Summit Scientific

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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:
04/15/20 13:18

N. WALL 2FT
2004071-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2600	12.0	mg/kg dry	1	2004086	04/07/20	04/08/20	EPA 6020B	
Magnesium	605	6.02	"	"	"	"	"	"	
Sodium	167	6.02	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.767	0.100	units	1	2004099	04/08/20	04/09/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	83.0		%	1	2004095	04/08/20	04/08/20	Calculation	
pH	8.42		pH Units	"	2004097	04/08/20	04/08/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.596	0.0100	mmhos/cm	1	2004096	04/08/20	04/08/20	EPA 120.1	

Summit Scientific

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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:
 04/15/20 13:18

S. WALL 4FT
2004071-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2004152	04/13/20	04/13/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		123 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	160	50	mg/kg	1	2004151	04/13/20	04/14/20	EPA 8015M	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

Summit Scientific

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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:
 04/15/20 13:18

E. WALL 4FT
2004071-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.028	0.0020	mg/kg	1	2004152	04/13/20	04/13/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.13	0.0050	"	"	"	"	"	"	
Xylenes (total)	4.5	1.0	"	100	"	"	04/13/20	"	
Naphthalene	0.86	0.010	"	1	"	"	04/13/20	"	
Gasoline Range Hydrocarbons	1100	500	"	10	"	"	"	"	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		216 %	23-173	"	"	"	"	"	S-02
Surrogate: Toluene-d8		55.4 %	20-170	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		1310 %	21-167	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2000	50	mg/kg	1	2004151	04/13/20	04/14/20	EPA 8015M	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		136 %	30-150	"	"	"	"	"	

Summit Scientific

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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:
04/15/20 13:18

W. WALL 4FT
2004071-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.011	0.0020	mg/kg	1	2004152	04/13/20	04/13/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.031	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.46	0.010	"	"	"	"	"	"	
Naphthalene	0.25	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	89	50	"	"	"	"	"	"	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		168 %	23-173	"	"	"	"	"	
Surrogate: Toluene-d8		93.8 %	20-170	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		320 %	21-167	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	360	50	mg/kg	1	2004151	04/13/20	04/14/20	EPA 8015M	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150	"	"	"	"	"	

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/20 13:18

FLOOR 7FT
2004071-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2004152	04/13/20	04/13/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Naphthalene	0.011	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50		"	"	"	"	"	"	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		129 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		144 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	310	50		mg/kg	1	2004151	04/13/20	04/14/20	EPA 8015M	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		120 %		30-150		"	"	"	"	

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 PO Box 1289
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Project: Noble - McDermed 2-1

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/20 13:18

FLOOR 10FT
2004071-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2004152	04/13/20	04/13/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		139 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	370	50	mg/kg	1	2004151	04/13/20	04/14/20	EPA 8015M	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

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Fremont Environmental
 PO Box 1289
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Project: Noble - McDermed 2-1

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/20 13:18

N-TP 6FT
2004071-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2004152	04/13/20	04/13/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	110	50	mg/kg	1	2004151	04/13/20	04/14/20	EPA 8015M	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

Summit Scientific

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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:
 04/15/20 13:18

S-TP 6FT
2004071-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2004152	04/13/20	04/13/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		132 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		123 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	270	50	mg/kg	1	2004151	04/13/20	04/14/20	EPA 8015M	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

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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:
 04/15/20 13:18

W-TP 7FT
2004071-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2004152	04/13/20	04/13/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	51	50	mg/kg	1	2004151	04/13/20	04/14/20	EPA 8015M	

Date Sampled: **04/07/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		126 %	30-150		"	"	"	"	

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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:
04/15/20 13:18

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 2004075 - EPA 5030 Water MS

Blank (2004075-BLK1)

Prepared & Analyzed: 04/07/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		93.0		23-173		
Surrogate: Toluene-d8	13.1		"	13.3		98.2		20-170		
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101		21-167		

LCS (2004075-BS1)

Prepared & Analyzed: 04/07/20

Benzene	43.0	1.0	ug/l	50.0		86.0		51-132		
Toluene	45.6	1.0	"	50.0		91.1		51-138		
Ethylbenzene	47.9	1.0	"	50.0		95.9		58-146		
m,p-Xylene	95.4	2.0	"	100		95.4		57-144		
o-Xylene	48.2	1.0	"	50.0		96.4		53-146		
Surrogate: 1,2-Dichloroethane-d4	12.0		"	13.3		89.9		23-173		
Surrogate: Toluene-d8	13.3		"	13.3		99.7		20-170		
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104		21-167		

Matrix Spike (2004075-MS1)

Source: 2004021-01

Prepared & Analyzed: 04/07/20

Benzene	44.7	1.0	ug/l	50.0	ND	89.3		34-141		
Toluene	47.9	1.0	"	50.0	ND	95.9		27-151		
Ethylbenzene	50.2	1.0	"	50.0	ND	100		29-160		
m,p-Xylene	100	2.0	"	100	ND	100		20-166		
o-Xylene	49.5	1.0	"	50.0	ND	99.0		33-159		
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		93.8		23-173		
Surrogate: Toluene-d8	13.4		"	13.3		100		20-170		
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102		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:
04/15/20 13:18

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 2004075 - EPA 5030 Water MS

Matrix Spike Dup (2004075-MSD1)

Source: 2004021-01

Prepared & Analyzed: 04/07/20

Benzene	45.0	1.0	ug/l	50.0	ND	89.9	34-141	0.692	30	
Toluene	47.8	1.0	"	50.0	ND	95.6	27-151	0.272	30	
Ethylbenzene	51.2	1.0	"	50.0	ND	102	29-160	1.93	30	
m,p-Xylene	99.8	2.0	"	100	ND	99.8	20-166	0.200	30	
o-Xylene	50.4	1.0	"	50.0	ND	101	33-159	1.86	30	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.8	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	21-167			

Batch 2004152 - EPA 5030 Soil MS

Blank (2004152-BLK1)

Prepared & Analyzed: 04/13/20

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0469		"	0.0400		117	23-173			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	20-170			
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	21-167			

LCS (2004152-BS1)

Prepared & Analyzed: 04/13/20

Benzene	0.0778	0.0020	mg/kg	0.100		77.8	70-130			
Toluene	0.0755	0.0050	"	0.100		75.5	70-130			
Ethylbenzene	0.0815	0.0050	"	0.100		81.5	70-130			
m,p-Xylene	0.156	0.010	"	0.200		78.1	70-130			
o-Xylene	0.0832	0.0050	"	0.100		83.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0400		96.7	23-173			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	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:
04/15/20 13:18

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 2004152 - EPA 5030 Soil MS

Matrix Spike (2004152-MS1)

Source: 2004071-05

Prepared & Analyzed: 04/13/20

Benzene	0.0775	0.0020	mg/kg	0.100	ND	77.5	70-130			
Toluene	0.0780	0.0050	"	0.100	ND	78.0	70-130			
Ethylbenzene	0.0799	0.0050	"	0.100	ND	79.9	70-130			
m,p-Xylene	0.152	0.010	"	0.200	ND	76.2	70-130			
o-Xylene	0.0804	0.0050	"	0.100	ND	80.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.0	23-173			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.8	21-167			

Matrix Spike Dup (2004152-MSD1)

Source: 2004071-05

Prepared & Analyzed: 04/13/20

Benzene	0.0708	0.0020	mg/kg	0.100	ND	70.8	70-130	9.07	30	
Toluene	0.0785	0.0050	"	0.100	ND	78.5	70-130	0.613	30	
Ethylbenzene	0.0866	0.0050	"	0.100	ND	86.6	70-130	8.04	30	
m,p-Xylene	0.165	0.010	"	0.200	ND	82.6	70-130	8.09	30	
o-Xylene	0.0866	0.0050	"	0.100	ND	86.6	70-130	7.51	30	
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400		97.9	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	21-167			

Summit Scientific

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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:
 04/15/20 13:18

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 2004079 - EPA 3550A

Blank (2004079-BLK1)

Prepared & Analyzed: 04/07/20

C10-C28 (DRO) ND 50 mg/kg

LCS (2004079-BS1)

Prepared & Analyzed: 04/07/20

C10-C28 (DRO) 413 50 mg/kg 500 82.7 70-130

Matrix Spike (2004079-MS1)

Source: 2004064-01

Prepared & Analyzed: 04/07/20

C10-C28 (DRO) 459 50 mg/kg 500 30.1 85.8 70-130

Matrix Spike Dup (2004079-MSD1)

Source: 2004064-01

Prepared & Analyzed: 04/07/20

C10-C28 (DRO) 456 50 mg/kg 500 30.1 85.3 70-130 0.546 20

Batch 2004151 - EPA 3550A

Blank (2004151-BLK1)

Prepared: 04/13/20 Analyzed: 04/14/20

C10-C28 (DRO) ND 50 mg/kg

LCS (2004151-BS1)

Prepared: 04/13/20 Analyzed: 04/14/20

C10-C28 (DRO) 534 50 mg/kg 500 107 70-130

Matrix Spike (2004151-MS1)

Source: 2004122-01

Prepared: 04/13/20 Analyzed: 04/14/20

C10-C28 (DRO) 505 50 mg/kg 500 41.6 92.7 70-130

Matrix Spike Dup (2004151-MSD1)

Source: 2004122-01

Prepared: 04/13/20 Analyzed: 04/14/20

C10-C28 (DRO) 516 50 mg/kg 500 41.6 95.0 70-130 2.25 20

Summit Scientific

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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:
 04/15/20 13:18

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

Summit Scientific

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

Batch 2004086 - General Preparation

Blank (2004086-BLK1)

Prepared & Analyzed: 04/07/20

Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							

LCS (2004086-BS1)

Prepared & Analyzed: 04/07/20

Calcium	550	10.0	mg/kg wet	500		110	70-130			
Magnesium	574	5.00	"	500		115	70-130			
Sodium	527	5.00	"	500		105	70-130			

Duplicate (2004086-DUP1)

Source: 2004032-01

Prepared & Analyzed: 04/07/20

Calcium	2040	12.7	mg/kg dry		2220			8.44	20	
Magnesium	596	6.33	"		629			5.30	20	
Sodium	345	6.33	"		371			7.24	20	

Matrix Spike (2004086-MS1)

Source: 2004032-01

Prepared & Analyzed: 04/07/20

Calcium	2810	12.7	mg/kg dry	633	2220	93.0	70-130			
Magnesium	1190	6.33	"	633	629	89.1	70-130			
Sodium	990	6.33	"	633	371	97.8	70-130			

Matrix Spike Dup (2004086-MSD1)

Source: 2004032-01

Prepared & Analyzed: 04/07/20

Calcium	2890	12.7	mg/kg dry	633	2220	106	70-130	2.89	25	
Magnesium	1190	6.33	"	633	629	88.7	70-130	0.194	25	
Sodium	952	6.33	"	633	371	91.9	70-130	3.89	25	

Summit Scientific

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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:
 04/15/20 13:18

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch 2004095 - General Preparation

Duplicate (2004095-DUP1)		Source: 2004059-01			Prepared & Analyzed: 04/08/20						
% Solids	88.1		%		88.3				0.223	20	

Batch 2004097 - General Preparation

LCS (2004097-BS1)		Prepared & Analyzed: 04/08/20									
pH	9.21		pH Units		9.18		100	95-105			
Duplicate (2004097-DUP1)		Source: 2004058-01			Prepared & Analyzed: 04/08/20						
pH	8.08		pH Units		8.05				0.372	20	

Summit Scientific

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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:
 04/15/20 13:18

Specific Conductance by EPA Method 120.1 - Quality Control
Summit Scientific

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

Batch 2004096 - General Preparation

Blank (2004096-BLK1)

Prepared & Analyzed: 04/08/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (2004096-BS1)

Prepared & Analyzed: 04/08/20

Specific Conductance (EC) 0.749 0.0100 mmhos/cm 0.750 99.9 90-110

Duplicate (2004096-DUP1)

Source: 2004058-01

Prepared & Analyzed: 04/08/20

Specific Conductance (EC) 0.403 0.0100 mmhos/cm 0.396 1.58 20

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:
04/15/20 13:18

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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