

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

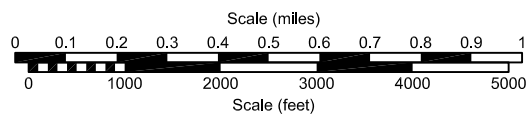
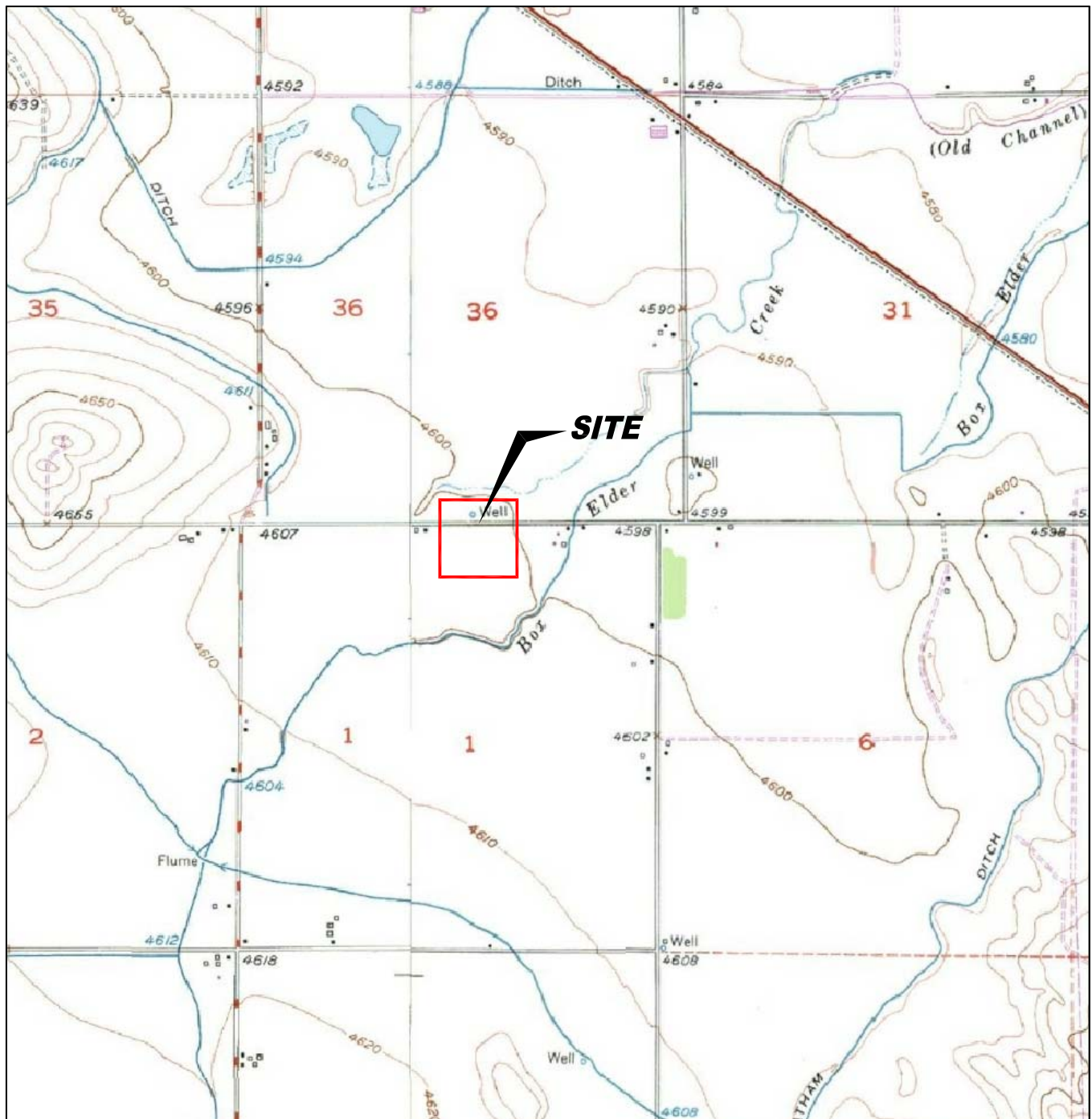
Sample	Depth (ft)	Date Sampled	Location	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Xylenes mg/kg	Naphthalene mg/kg	TPH GRO mg/kg	TPH DRO mg/kg
N Wall 4 Ft	4	4/7/2020	Wall	<b>0.21</b>	<0.005	0.57	13	2.0	<b>810</b>	<b>2200</b>
N Wall 2 Ft	2	4/7/2020	Wall	NA	NA	NA	NA	NA	NA	NA
S Wall 4 Ft	4	4/7/2020	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	<b>1100</b>	<b>2000</b>
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	<b>8.3</b>	<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

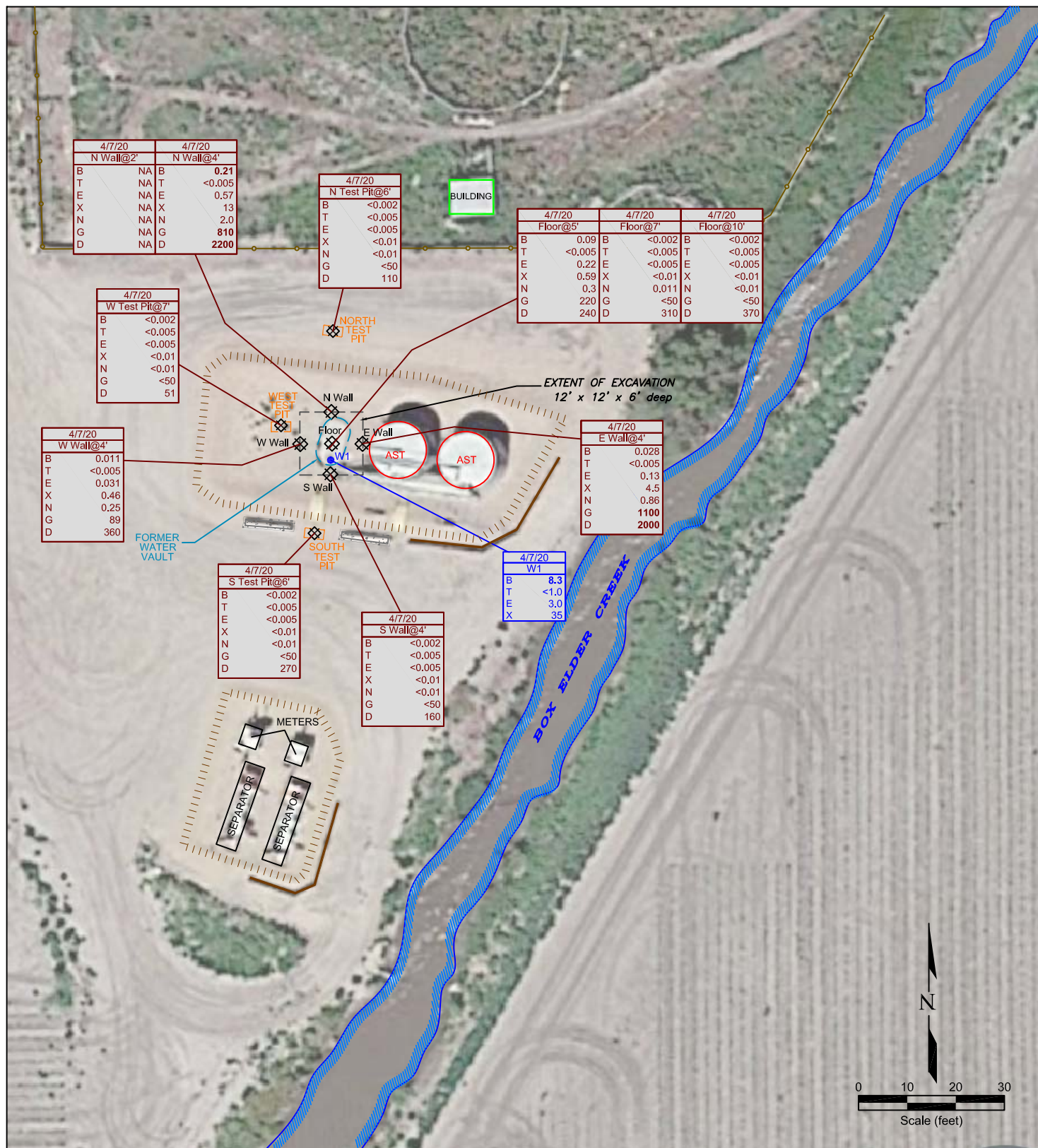
Figure 2  
SITE MAP

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

Project No. <b>CO20-022</b>	Prepared by TA	Drawn by TA
Date <b>4/16/20</b>	Reviewed by <b>PH</b>	Filename <b>20022QQ</b>







### LEGEND

<span style="color: blue;">●</span>	WATER SAMPLE LOCATION	<b>4/7/20 N Wall@4'</b>	DATE SAMPLED
<span style="border: 1px solid black; padding: 2px;">X</span>	SOIL SAMPLE LOCATION	B 0.21	DEPTH (ft) and LOCATION
<span style="border: 1px solid red; border-radius: 50%; padding: 2px;"> </span>	ABOVE GROUND STORAGE TANK	T <0.005	BENZENE (mg/kg)
<span style="border: 1px solid orange; padding: 2px;"> </span>	TEST PIT LOCATION	E 0.57	TOLUENE (mg/kg)
<span style="border: 1px solid blue; padding: 2px;"> </span>	CONCRETE BARRICADES	X 13	ETHYLBENZENE (mg/kg)
<span style="border: 1px solid blue; padding: 2px;"> </span>	FORMER FACILITY	N 2.0	TOTAL XYLENES (mg/kg)
<span style="border: 1px solid blue; padding: 2px;"> </span>	FORMER FACILITY	G 810	NAPHTHALENE (mg/kg)
<span style="border: 1px solid green; padding: 2px;"> </span>	BUILDING	D 2200	TPH-GRO (mg/kg)
<span style="border: 1px solid green; padding: 2px;"> </span>	BUILDING	<b>4/7/20 W1</b>	TPH-DRO (mg/kg)
<span style="border: 1px solid green; padding: 2px;"> </span>	BUILDING	B 8.3	DATE SAMPLED
<span style="border: 1px solid green; padding: 2px;"> </span>	BUILDING	T <1.0	SAMPLE ID
<span style="border: 1px solid green; padding: 2px;"> </span>	BUILDING	E 3.0	BENZENE (ug/L)
<span style="border: 1px solid green; padding: 2px;"> </span>	BUILDING	X 35	TOLUENE (ug/L)
<span style="border: 1px solid green; padding: 2px;"> </span>	BUILDING		ETHYLBENZENE (ug/L)
<span style="border: 1px solid green; padding: 2px;"> </span>	BUILDING		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 - McDermid 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, 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:**  
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

S<sub>2</sub>

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

2004071.1

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	HNO <sub>3</sub>	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:	<b>Turn Around Time</b> (Check) Same Day <input checked="" type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> BOTH <b>Sample Integrity:</b> Temperature Upon Receipt: <u>10.1</u> Samples Intact: <input checked="" type="checkbox"/> Yes No	<b>Notes:</b>  ON ICE
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		



20040712

Page 2 of 7

Project Number:

www.s2scientific.com

# Sample Receipt Checklist

S2 Work Order 2004071

Client: Fremont/Noble

Client Project ID: McDermid 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 <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"/>	On Ice
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Some same day
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.

MP

Custodian Printed Name or Initials

*Muri Premer*

Signature of Custodian

4/7/20

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McDermid 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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Benzene</b>	<b>0.21</b>	0.0020	mg/kg	1	2004077	04/07/20	04/07/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.57</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>13</b>	0.10	"	10	"	"	"	"	E
<b>Naphthalene</b>	<b>2.0</b>	0.10	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>810</b>	50	"	"	"	"	"	"	E

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

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

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

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

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:**  
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
<b>Benzene</b>	<b>0.090</b>	0.0020	mg/kg	1	2004077	04/07/20	04/07/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.22</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.59</b>	0.10	"	10	"	"	"	"	
<b>Naphthalene</b>	<b>0.30</b>	0.010	"	1	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>220</b>	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
<b>C10-C28 (DRO)</b>	<b>240</b>	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		"	"	"	"	

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

**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								
<b>Benzene</b>	<b>8.3</b>	1.0		ug/l	1	2004075	04/07/20	04/07/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.0</b>	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>35</b>	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 - McDermid 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	<b>2600</b>	12.0	mg/kg dry	1	2004086	04/07/20	04/08/20	EPA 6020B	
Magnesium	<b>605</b>	6.02	"	"	"	"	"	"	
Sodium	<b>167</b>	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	<b>0.767</b>	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	<b>83.0</b>		%	1	2004095	04/08/20	04/08/20	Calculation	
pH	<b>8.42</b>		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)	<b>0.596</b>	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 - McDermid 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	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	ND	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		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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>160</b>	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		112 %	30-150		"	"	"	"	

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:**  
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
<b>Benzene</b>	<b>0.028</b>	0.0020	mg/kg	1	2004152	04/13/20	04/13/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.13</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>4.5</b>	1.0	"	100	"	"	04/13/20	"	
<b>Naphthalene</b>	<b>0.86</b>	0.010	"	1	"	"	04/13/20	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1100</b>	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
<b>C10-C28 (DRO)</b>	<b>2000</b>	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		"	"	"	"	

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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:**  
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
<b>Benzene</b>	<b>0.011</b>	0.0020	mg/kg	1	2004152	04/13/20	04/13/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.031</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.46</b>	0.010	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.25</b>	0.010	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>89</b>	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
<b>C10-C28 (DRO)</b>	<b>360</b>	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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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McDermid 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	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.011</b>	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							
<b>C10-C28 (DRO)</b>	<b>310</b>	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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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McDermid 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	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	ND	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		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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>370</b>	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		113 %	30-150		"	"	"	"	

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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:**  
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	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	ND	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		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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>110</b>	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		107 %	30-150		"	"	"	"	

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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:**  
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	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	ND	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		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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>270</b>	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		110 %	30-150		"	"	"	"	

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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:**  
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	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	ND	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		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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>51</b>	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		126 %	30-150		"	"	"	"	

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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:**  
04/15/20 13:18

## 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 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 - McDermid 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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### 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 - McDermid 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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### 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 - McDermid 2-1

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
04/15/20 13:18

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**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 - McDermid 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		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**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 - McDermid 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	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 2004095 - General Preparation**

**Duplicate (2004095-DUP1)**

Source: 2004059-01

Prepared & Analyzed: 04/08/20

% Solids	88.1		%		88.3			0.223	20	
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**Batch 2004097 - General Preparation**

**LCS (2004097-BS1)**

Prepared & Analyzed: 04/08/20

pH	9.21		pH Units	9.18	100	95-105				
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**Duplicate (2004097-DUP1)**

Source: 2004058-01

Prepared & Analyzed: 04/08/20

pH	8.08		pH Units		8.05			0.372	20	
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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:**  
04/15/20 13:18

**Specific Conductance by EPA Method 120.1 - Quality Control**  
**Summit Scientific**

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

**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

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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:**  
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