

USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC. ~ WEEZER G3-22 (Wellhead)
SESW Section 3, T4N, R65W ~ 40.33602°, -104.65135°
Weld County, Colorado

Project No.
C019-078

Prepared by

Drawn by
TDA

Date

10/3/19

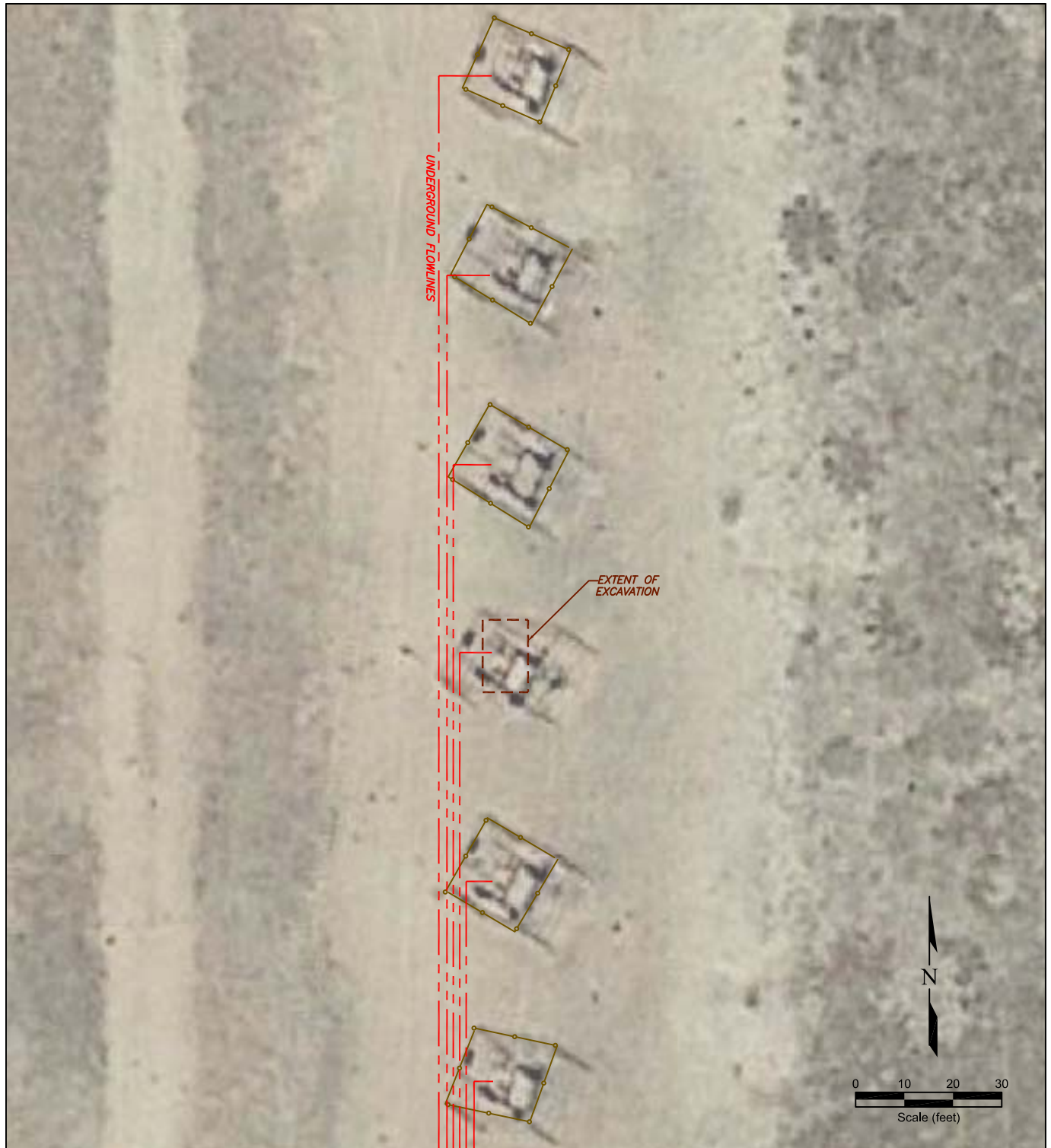
Reviewed by

EB

Filename

19078T





LEGEND

- EXTENT OF EXCAVATION
- UNDERGROUND FLOW LINE
- FENCE LINE

Figure 2
SITE MAP

NOBLE ENERGY, INC. ~ WEEZER G3-22 (Wellhead)
SESW Section 3, T4N, R65W ~ 40.33602°, -104.65135°
Weld County, Colorado

Project No.
C019-078

Prepared by

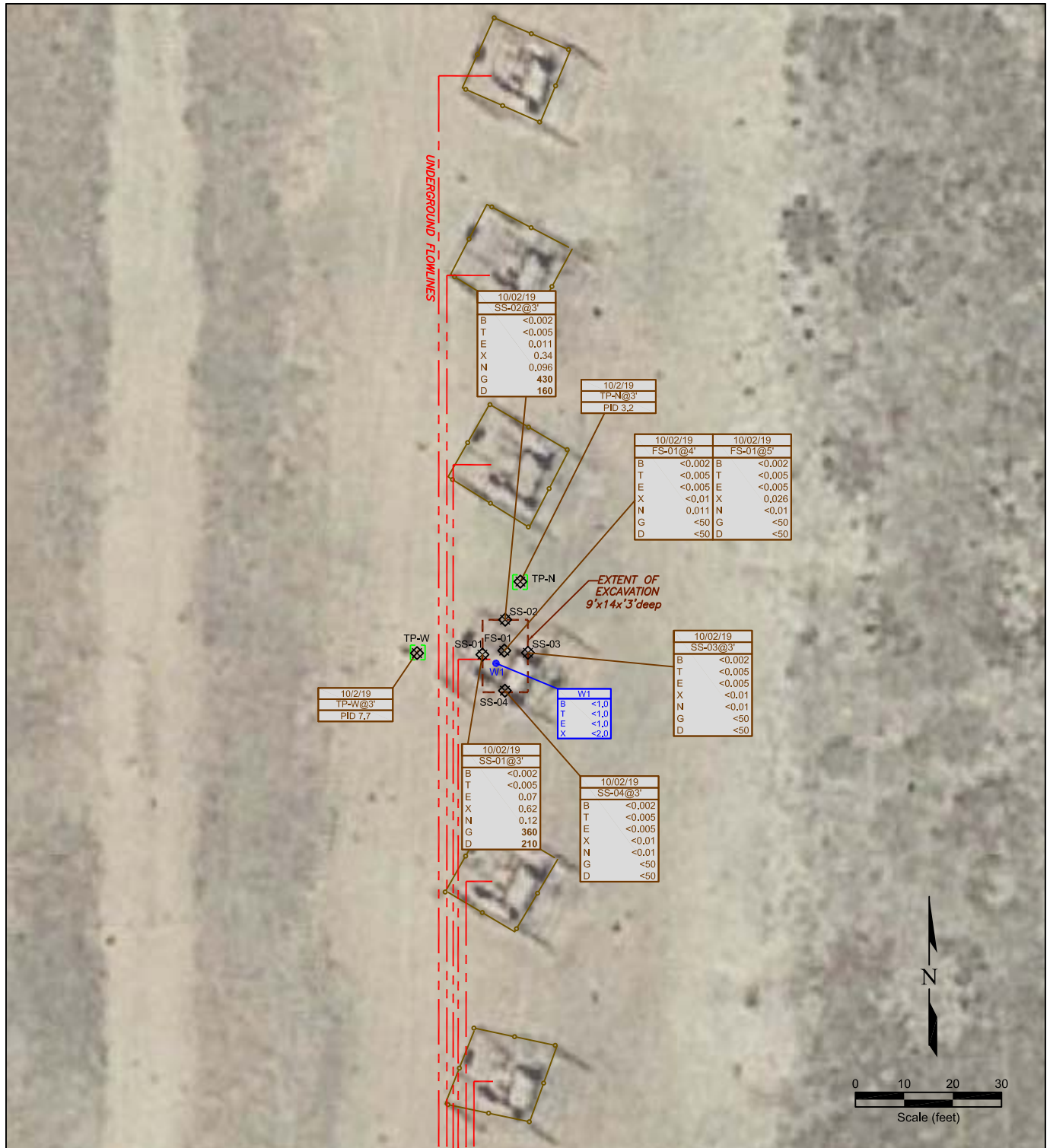
Drawn by
TDA

Date
10/3/19

Reviewed by
EB

Filename
19078Q





LEGEND

- WATER SAMPLE LOCATION
- ⊗ SOIL SAMPLE LOCATION
- TEST PIT LOCATION
- EXTENT OF EXCAVATION
- UNDERGROUND FLOW LINE
- FENCE LINE

10/02/19	DATE SAMPLED
SS-01@3'	DEPTH (ft) and LOCATION
B <0.002	BENZENE (mg/kg)
T <0.005	TOLUENE (mg/kg)
E 0.07	ETHYLBENZENE (mg/kg)
X 0.62	TOTAL XYLENES (mg/kg)
N 0.12	NAPHTHALENE (mg/kg)
G 360	TPH-GRO (mg/kg)
D 210	TPH-DRO (mg/kg)

10/02/19	DATE SAMPLED
SS-01@3'	DEPTH (ft) and LOCATION
B <0.002	BENZENE (mg/kg)
T <0.005	TOLUENE (mg/kg)
E 0.07	ETHYLBENZENE (mg/kg)
X 0.62	TOTAL XYLENES (mg/kg)
N 0.12	NAPHTHALENE (mg/kg)
G 360	TPH-GRO (mg/kg)
D 210	TPH-DRO (mg/kg)

W1	SAMPLE ID
B <1.0	BENZENE (ug/L)
T <1.0	TOLUENE (ug/L)
E <1.0	ETHYLBENZENE (ug/L)
X <2.0	TOTAL XYLENES (ug/L)

W1	SAMPLE ID
B <1.0	BENZENE (ug/L)
T <1.0	TOLUENE (ug/L)
E <1.0	ETHYLBENZENE (ug/L)
X <2.0	TOTAL XYLENES (ug/L)

Figure 3
**EXTENT OF EXCAVATION WITH
SOIL AND GROUND WATER CHEMISTRY**
October 2, 2019

NOBLE ENERGY, INC. ~ WEEZER G3-22 (Wellhead)
SESW Section 3, T4N, R65W ~ 40.33602°, -104.65135°
Weld County, Colorado

Project No. C019-078	Prepared by TDA	Drawn by TDA
Date 10/3/19	Reviewed by EB	Filename 19078Q



TABLE 1
SUMMARY OF SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
WEEZER G3-22 (WELLHEAD), WELD COUNTY, COLORADO
FREMONT PROJECT NO. C019-078

Sample	Depth (ft)	Date Sampled	Location	Pass or Fail	Benzene mg/kg	Toluene mg/kg	Ethyl- Benzene mg/kg	Xylenes mg/kg	Naphth- alene mg/kg	TPH GRO mg/kg	TPH DRO mg/kg
SS-01 3 Ft	3	10/2/2019	Wall	Fail	<0.002	<0.005	0.07	0.62	0.12	360	210
SS-02 3 Ft	3	10/2/2019	Wall	Fail	<0.002	<0.005	0.011	0.34	0.096	430	160
SS-03 3 Ft	3	10/2/2019	Wall	Pass	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50
SS-04 3 Ft	3	10/2/2019	Wall	Pass	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50
FS-01 4 Ft	4	10/2/2019	Floor	Pass	<0.002	<0.005	<0.005	<0.01	0.011	<50	<50
FS-01 5 Ft	5	10/2/2019	Floor	Pass	<0.002	<0.005	<0.005	0.026	<0.01	<50	<50
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 WATER CHEMISTRY DATA
NOBLE ENERGY INC.
WEEZER G3-22 (WELLHEAD), WELD COUNTY, COLORADO
FREMONT PROJECT NO. C019-078

Sample	Depth (ft)	Date Sampled	Benzene ug/kg	Toluene ug/kg	Ethyl- Benzene ug/kg	Xylenes ug/kg
W1	4	10/2/2019	<1.0	<1.0	<1.0	<2.0
COGCC Table 910 Limits			5	560	700	1400

Bold faced values exceed the COGCC Table 910-1 concentrations

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 03, 2019

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Weezer G 3-22

Enclosed are the results of analyses for samples received by Summit Scientific on 10/02/19 17:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury

Laboratory Manager



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01 3FT	1910019-01	Soil	10/02/19 00:00	10/02/19 17:13
SS-02 3FT	1910019-02	Soil	10/02/19 00:00	10/02/19 17:13
SS-03 3FT	1910019-03	Soil	10/02/19 00:00	10/02/19 17:13
SS-04 3FT	1910019-04	Soil	10/02/19 00:00	10/02/19 17:13
FS-01 4FT	1910019-05	Soil	10/02/19 00:00	10/02/19 17:13
FS-01 5FT	1910019-06	Soil	10/02/19 00:00	10/02/19 17:13
W1	1910019-07	Water	10/02/19 00:00	10/02/19 17:13

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

1910019

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page | of |

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 - Weezer G 3-22

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	Naphthalene	GRO	DRO	SAR	EC	pH		
1	SS-01 3FT	10/2/19		1			X			X				X	X	X	X				
2	SS-02 3FT			1																	
3	SS-03 3FT			1																	
4	SS-04 3FT			1																	
5	FS-01 4FT			1																	
6	FS-01 5FT			1																	
7	WI			2					X												
8																					
9																					
10																					

Relinquished by: Ethan Black	Date/Time: 10/2/19 113	Received by: 	Date/Time: 10/02/19 1713	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: 3.6 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 1910019

Client: FREMONT ENVIRONMENTAL Client Project ID: Noble-Weezer G3-22

Shipped Via: (H.D.) P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (check all that apply): Air X Soil/Solid X Water Other: _____
(Describe)

Temp (°C)	<u>3.6</u>
-----------	------------

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

Additional Comments (if any):

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

Custodian Printed Name or Initials EE

Signature of Custodian [Signature]

10/02/19
Date/Time 1720



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

SS-01 3FT
1910019-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1910037	10/02/19	10/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.070	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.62	0.010	"	"	"	"	"	"	
Naphthalene	0.12	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	360	50	"	10	"	"	"	"	

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		147 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	210	50	mg/kg	1	1910038	10/02/19	10/03/19	EPA 8015M	

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.1 %	30-150		"	"	"	"	

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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

SS-02 3FT
1910019-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1910037	10/02/19	10/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.011	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.34	0.010	"	"	"	"	"	"	
Naphthalene	0.096	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	430	50	"	10	"	"	"	"	

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		167 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	160	50	mg/kg	1	1910038	10/02/19	10/03/19	EPA 8015M	

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.8 %	30-150		"	"	"	"	

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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

SS-03 3FT
1910019-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1910037	10/02/19	10/03/19	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: **10/02/19 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		125 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1910038	10/02/19	10/03/19	EPA 8015M	

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		91.1 %	30-150		"	"	"	"	

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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

SS-04 3FT
1910019-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1910037	10/02/19	10/03/19	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: **10/02/19 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1910038	10/02/19	10/03/19	EPA 8015M	

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		91.9 %	30-150		"	"	"	"	

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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

FS-01 4FT
1910019-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1910037	10/02/19	10/03/19	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: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		135 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1910038	10/02/19	10/03/19	EPA 8015M	

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.2 %	30-150		"	"	"	"	

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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

FS-01 5FT
1910019-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1910037	10/02/19	10/03/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.026	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1910038	10/02/19	10/03/19	EPA 8015M	

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.2 %	30-150		"	"	"	"	

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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

W1
1910019-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1910039	10/02/19	10/02/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/02/19 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1910037 - EPA 5030 Soil MS

Blank (1910037-BLK1)

Prepared: 10/02/19 Analyzed: 10/03/19

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	0.0447		"	0.0400		112	23-173			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	21-167			

LCS (1910037-BS1)

Prepared: 10/02/19 Analyzed: 10/03/19

Benzene	0.0774	0.0020	mg/kg	0.100		77.4	70-130			
Toluene	0.103	0.0050	"	0.100		103	70-130			
Ethylbenzene	0.0913	0.0050	"	0.100		91.3	70-130			
m,p-Xylene	0.173	0.010	"	0.200		86.4	70-130			
o-Xylene	0.0890	0.0050	"	0.100		89.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.7	23-173			
Surrogate: Toluene-d8	0.0452		"	0.0400		113	20-170			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	21-167			

Matrix Spike (1910037-MS1)

Source: 1910018-01

Prepared: 10/02/19 Analyzed: 10/03/19

Benzene	0.423	0.0020	mg/kg	0.100	0.480	NR	70-130			QM-07
Toluene	0.0970	0.0050	"	0.100	ND	97.0	70-130			
Ethylbenzene	0.0948	0.0050	"	0.100	ND	94.8	70-130			
m,p-Xylene	0.178	0.010	"	0.200	0.00831	85.0	70-130			
o-Xylene	0.0899	0.0050	"	0.100	ND	89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0350		"	0.0400		87.4	23-173			
Surrogate: Toluene-d8	0.0418		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

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 1910037 - EPA 5030 Soil MS

Matrix Spike Dup (1910037-MSD1)		Source: 1910018-01			Prepared: 10/02/19 Analyzed: 10/03/19					
Benzene	0.489	0.0020	mg/kg	0.100	0.480	9.54	70-130	14.5	30	QM-07
Toluene	0.0880	0.0050	"	0.100	ND	88.0	70-130	9.80	30	
Ethylbenzene	0.0940	0.0050	"	0.100	ND	94.0	70-130	0.890	30	
m,p-Xylene	0.174	0.010	"	0.200	0.00831	82.8	70-130	2.47	30	
o-Xylene	0.0911	0.0050	"	0.100	ND	91.1	70-130	1.33	30	
Surrogate: 1,2-Dichloroethane-d4		0.0354	"	0.0400		88.6	23-173			
Surrogate: Toluene-d8		0.0394	"	0.0400		98.6	20-170			
Surrogate: 4-Bromofluorobenzene		0.0407	"	0.0400		102	21-167			

Batch 1910039 - EPA 5030 Water MS

Blank (1910039-BLK1)		Prepared: 10/02/19 Analyzed: 10/03/19								
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4		13.6	"	13.3		102	23-173			
Surrogate: Toluene-d8		12.4	"	13.3		93.3	20-170			
Surrogate: 4-Bromofluorobenzene		12.7	"	13.3		95.1	21-167			
LCS (1910039-BS1)		Prepared: 10/02/19 Analyzed: 10/03/19								
Benzene	35.3	1.0	ug/l	33.3		106	51-132			
Toluene	36.5	1.0	"	33.3		109	51-138			
Ethylbenzene	40.5	1.0	"	33.3		122	58-146			
m,p-Xylene	76.5	2.0	"	66.7		115	57-144			
o-Xylene	37.2	1.0	"	33.3		112	53-146			
Surrogate: 1,2-Dichloroethane-d4		12.7	"	13.3		95.3	23-173			
Surrogate: Toluene-d8		12.6	"	13.3		94.7	20-170			
Surrogate: 4-Bromofluorobenzene		12.5	"	13.3		94.0	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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

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 1910039 - EPA 5030 Water MS

Matrix Spike (1910039-MS1)

Source: 1910020-03

Prepared: 10/02/19 Analyzed: 10/03/19

Benzene	38.5	1.0	ug/l	33.3	ND	115	34-141
Toluene	39.9	1.0	"	33.3	ND	120	27-151
Ethylbenzene	43.9	1.0	"	33.3	ND	132	29-160
m,p-Xylene	83.0	2.0	"	66.7	ND	124	20-166
o-Xylene	40.9	1.0	"	33.3	ND	123	33-159
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		100	23-173
Surrogate: Toluene-d8	12.8		"	13.3		95.9	20-170
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.9	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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1910038 - EPA 3550A

Blank (1910038-BLK1)

Prepared: 10/02/19 Analyzed: 10/03/19

C10-C28 (DRO) ND 50 mg/kg

LCS (1910038-BS1)

Prepared: 10/02/19 Analyzed: 10/03/19

C10-C28 (DRO) 475 50 mg/kg 500 95.0 70-130

Matrix Spike (1910038-MS1)

Source: 1910018-01

Prepared: 10/02/19 Analyzed: 10/03/19

C10-C28 (DRO) 477 50 mg/kg 500 37.2 88.0 70-130

Matrix Spike Dup (1910038-MSD1)

Source: 1910018-01

Prepared: 10/02/19 Analyzed: 10/03/19

C10-C28 (DRO) 489 50 mg/kg 500 37.2 90.4 70-130 2.49 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 - Weezer G 3-22

Project Number: [none]
Project Manager: Paul Henehan

Reported:
10/03/19 06:12

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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