

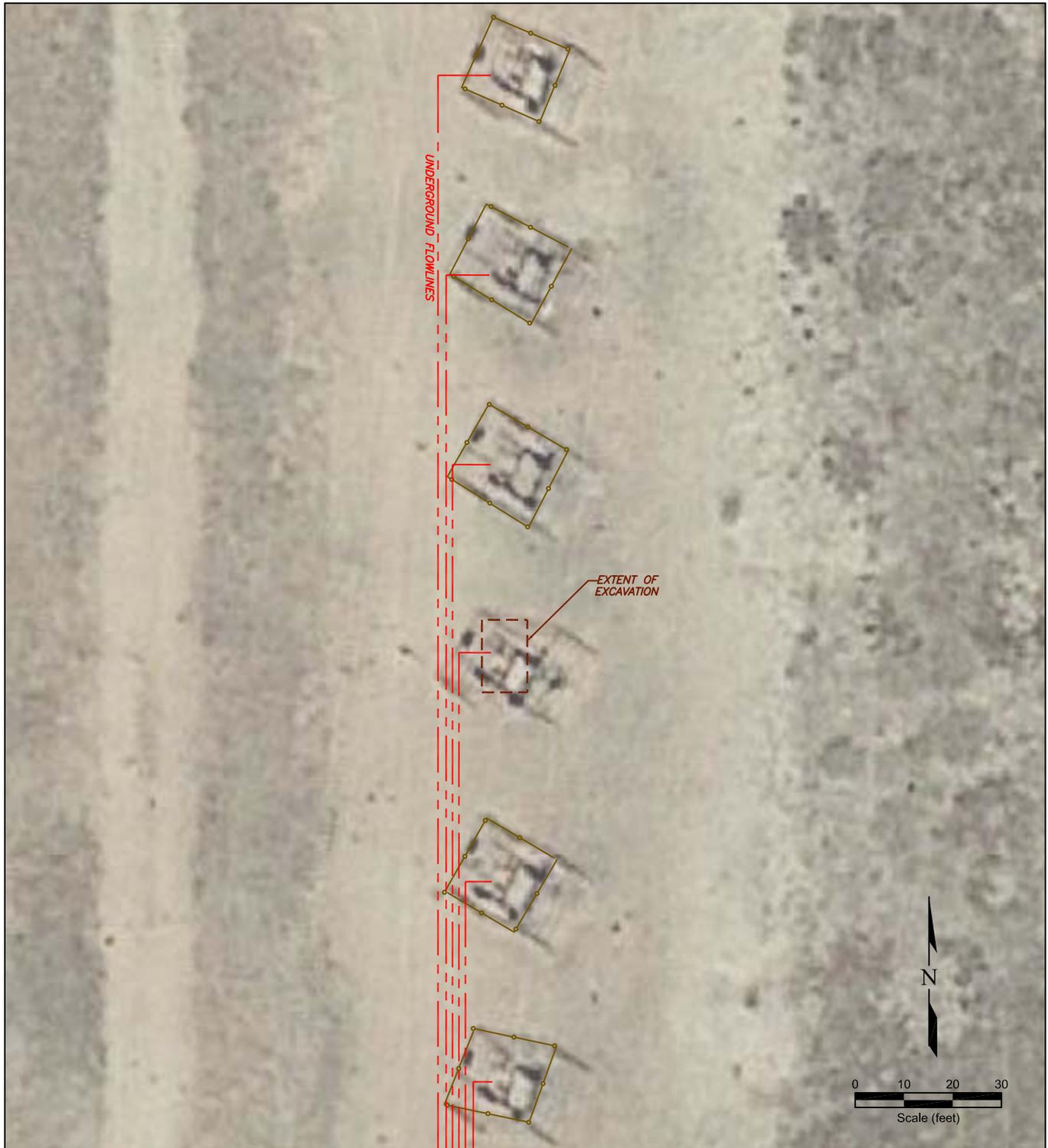
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

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. <b>C019-078</b>	Prepared by	Drawn by <b>TDA</b>
Date <b>10/3/19</b>	Reviewed by <b>EB</b>	Filename <b>19078T</b>





**LEGEND**

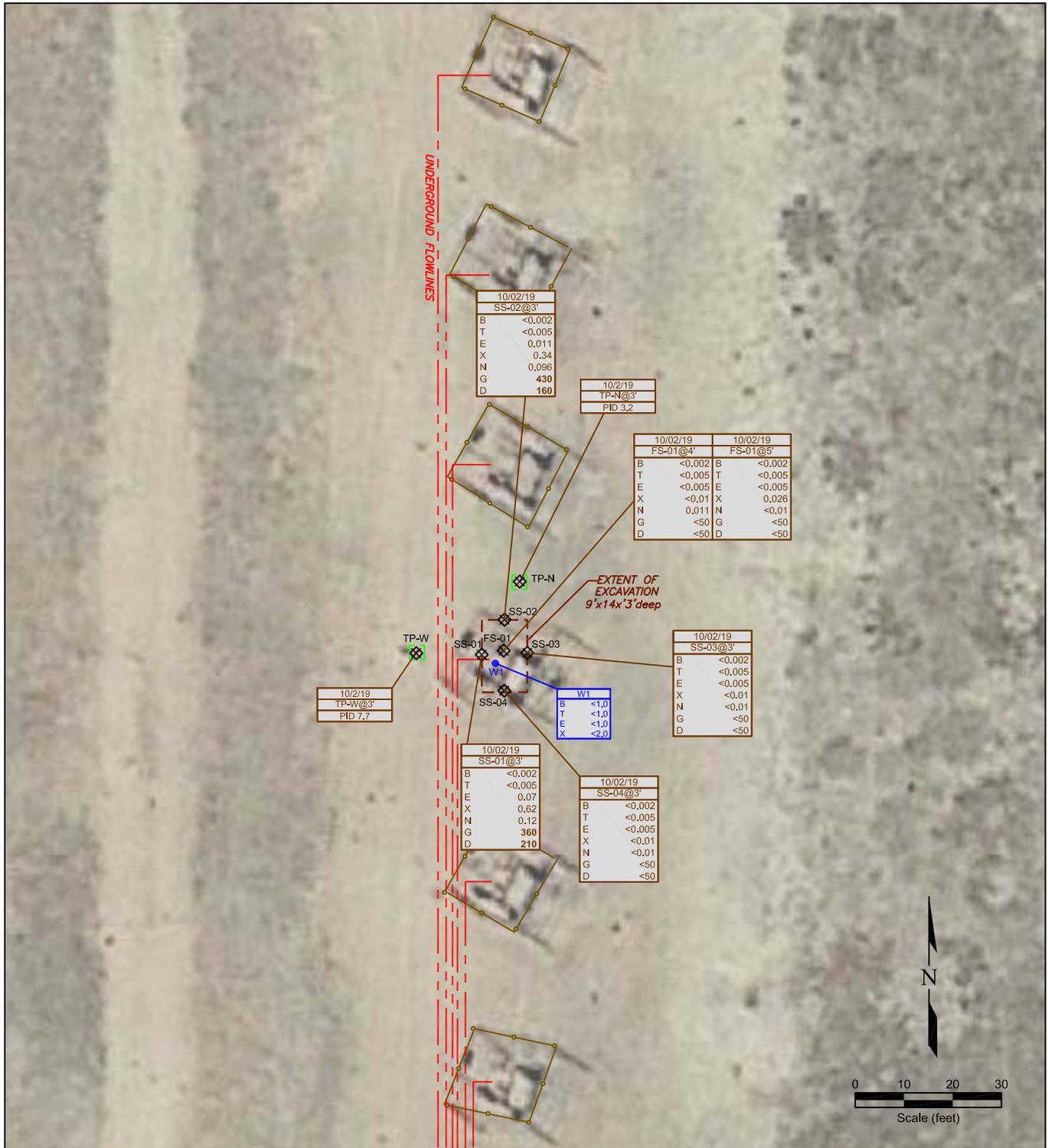
- - - - - EXTENT OF EXCAVATION
- - - - - UNDERGROUND FLOW LINE
- - - - - FENCE LINE

**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. <b>C019-078</b>	Prepared by <b>TDA</b>	Drawn by <b>TDA</b>
Date <b>10/3/19</b>	Reviewed by <b>EB</b>	Filename <b>19078Q</b>





**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)

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. <b>C019-078</b>	Prepared by	Drawn by <b>TDA</b>
Date <b>10/3/19</b>	Reviewed by <b>EB</b>	Filename <b>19078Q</b>



**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	Naphthalene 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	<b>360</b>	<b>210</b>
SS-02 3 Ft	3	10/2/2019	Wall	Fail	<0.002	<0.005	0.011	0.34	0.096	<b>430</b>	<b>160</b>
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**

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

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', written in a cursive style.

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

S<sub>2</sub>

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	HNO3	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 1713	Received by: [Signature]	Date/Time: 10/02/19 1713	<b>Turn Around Time</b> (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ <b>Sample Integrity:</b> Temperature Upon Receipt: 3.6 Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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  Soil/Solid  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 <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"/>			
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>		<input checked="" 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 checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<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.

FE  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

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	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.070</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.62</b>	0.010	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.12</b>	0.010	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>360</b>	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
<b>C10-C28 (DRO)</b>	<b>210</b>	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	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.011</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.34</b>	0.010	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.096</b>	0.010	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>430</b>	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
<b>C10-C28 (DRO)</b>	<b>160</b>	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		"	"	"	"	

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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 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	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		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 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		91.1 %	30-150		"	"	"	"	

Summit Scientific

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

Summit Scientific

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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		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		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.011</b>	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								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		135 %		23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %		20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		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								
<i>Surrogate: o-Terphenyl</i>		93.2 %		30-150		"	"	"	"	

Summit Scientific

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>114 %</i>		<i>23-173</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>94.1 %</i>		<i>20-170</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>97.9 %</i>		<i>21-167</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

#### 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				

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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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch 1910037 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1910037-MSD1)</b>		<b>Source: 1910018-01</b>			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**

<b>Blank (1910039-BLK1)</b>					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			
<b>LCS (1910039-BS1)</b>					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			

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch 1910039 - EPA 5030 Water MS**

<b>Matrix Spike (1910039-MS1)</b>	<b>Source: 1910020-03</b>			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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>100</i>	<i>23-173</i>
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>95.9</i>	<i>20-170</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>		<i>93.9</i>	<i>21-167</i>

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 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		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**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

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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