

# **FREMONT ENVIRONMENTAL INC.**

December 3, 2020

Mr. Jacob Evans  
Noble Energy Inc.  
2115 117<sup>th</sup> Ave,  
Greeley, CO 80634

Subject:       **Groundwater Monitoring Report**  
                  Weezer G02-32 (Wellhead)  
                  API # 05-123-25720  
                  Weld County, Colorado  
                  Fremont Project No. C019-078  
                  Facility #336707, Remediation # 14376

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Groundwater Monitoring Report for the Weezer G02-32 wellhead site in Weld County, Colorado. The enclosed report describes monitoring and sampling efforts to assess groundwater quality at the site. Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,  
**FREMONT ENVIRONMENTAL INC.**



Paul V. Henehan, P.E.  
Senior Consultant

Enclosure

**GROUNDWATER MONITORING REPORT**

**NOBLE ENERGY INC.**

**WEEZER G02-32 (WELLHEAD)**

**WELD COUNTY, COLORADO**

**FREMONT PROJECT NO. C019-078**

**FACILITY #336707, REMEDIATION #14376**

**Prepared by:**

**Fremont Environmental Inc.  
1759 Redwing Lane  
Broomfield, CO 80020  
(303) 956-8714**

**December 3, 2020**

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# **GROUNDWATER MONITORING REPORT**

**NOBLE ENERGY INC.**

**WEEZER G02-32 (WELLHEAD)**

**WELD COUNTY, COLORADO**

**FREMONT PROJECT NO. C019-078**

**FACILITY #336707, REMEDIATION #14376**

## **1.0 INTRODUCTION**

The purpose of this document is to present surface water and groundwater quality data collected at the Weezer G02-32 wellhead site. Impacted soil and groundwater were identified at this location during plugging and abandonment of this well. Five monitoring wells were installed at this site on October 21, 2019 and an additional seven monitoring wells were installed on August 18, 2020 to delineate the magnitude and extent of subsurface impacts.

## **2.0 BACKGROUND INFORMATION**

### **2.1 Site Location**

The Weezer G02-32 wellhead site is located approximately four miles southeast of La Salle, Colorado in Weld County as shown on Figure 1. The site is in a rural and agricultural area 0.3 miles east of the intersection of Weld County Rd 43 and Weld County Rd 48. The location is further described as the SE  $\frac{1}{4}$  of the SW  $\frac{1}{4}$  of Section 3, Township 4N, Range 65W.

### **2.2 Site History**

The site consists of the area adjacent to the former Weezer G02-32 wellhead. The Weezer G02-32 well was drilled in 2008 to a depth of 7,182 feet. Soil impacts were identified at the location while the Weezer G02-32 was being plugged and abandoned.

During the well abandonment, a limited excavation to remediate the source impacts was undertaken. Laboratory analyses of the soil and groundwater samples collected from the excavation indicated concentrations of total petroleum hydrocarbons (TPH) were greater than the Colorado Oil and Gas Conservation Commission's (COGCC's) Table 910-1 standards in two of the samples. A site investigation was conducted in October 2019 to determine the extent of subsurface impacts and five monitoring wells were installed.

On December 17, 2019, Apex Companies personnel collected surface water samples from four wellheads adjacent to the abandoned Weezer G02-32 well after bubbling was observed in the surface water adjacent to each well. Laboratory analysis confirmed the presence of dissolved gases in the surface water. These data are summarized on Table 1.

### **3.0 SITE INVESTIGATION ACTIVITIES**

#### **3.1 Groundwater Level Measurements**

Groundwater levels were measured in the 12 monitoring wells on October 29, 2020. The water level data are summarized in Table 1. Water table contours inferred from the October 2020 data are illustrated on Figure 3.

Based on these data, groundwater is inferred to flow to the north. The water table gradient was calculated at approximately 0.002 feet per foot (ft/ft) for the October 2020 data.

#### **3.2 Groundwater Sampling and Analysis**

Groundwater samples were collected from the 12 monitoring wells on October 29, 2020. The samples were collected using a low flow sampling technique. A Geotech peristaltic pump was used to purge and sample groundwater from each monitoring well. An In-Situ Aqua TROLL 600 was used to monitor the temperature, specific conductivity, pH, oxygen

reduction potential (ORP), dissolved oxygen and turbidity of the groundwater. When these parameters stabilized, groundwater samples were collected and placed in an ice filled cooler.

The groundwater samples were submitted to Origins Laboratory, Inc. in Denver, Colorado for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260D and dissolved gases by method RSK 175. The groundwater chemistry is illustrated on Figure 4 and summarized in Table 1.

A copy of the laboratory reports, quality control data, and chain-of-custody documentation are presented in Appendix A.

Dissolved concentrations of BTEX for the October 2020 sampling event were less than their respective COGCC Table 910-1 standard. However, detectable concentrations of dissolved methane were present in 10 of the 12 groundwater samples collected. The lowest methane concentration (<10.0 ug/L) was observed in monitoring wells MW-11 and MW-12 and the highest concentration (5,970 ug/L) was detected in MW-4. Concentrations of dissolved ethane were detected in MW-4, MW-5, and MW-6; dissolved propane was detected in MW-4 and MW-5. Surface water was not present during the October 2020 sampling event.

#### **4.0 DISCUSSION**

Due to an historical release from the flow line near the wellhead of the Weezer G02-32 well, quarterly groundwater monitoring was conducted on October 29, 2020. Groundwater samples were collected from 12 monitoring wells. BTEX concentrations were below the COGCC Table 910-1 standards in all 12 wells. However, methane, ethane and propane were present above the laboratory detection limits in several monitoring wells.

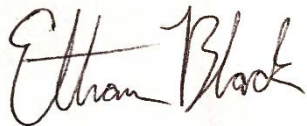
Additional groundwater monitoring wells will be installed to fully delineate the extent of dissolved gases and establish points of compliance on site. Additional soil vapor points will also be installed to assess the presence of dissolved gases within the vadose zone.

Noble will continue to sample the groundwater on a quarterly basis using low flow sampling techniques to monitor the groundwater quality at this location.

### 5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



12/3/20

Date \_\_\_\_\_

\_\_\_\_\_  
Ethan D. Black  
Geologist

Reviewed by:



12/3/20

Date \_\_\_\_\_

\_\_\_\_\_  
Paul V. Henehan, P.E.  
Senior Consultant

**TABLE**

**TABLE 1**  
**SUMMARY OF GROUNDWATER ELEVATION DATA AND CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**WEEZER G02-32 (WELLHEAD), WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C019-078**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	METHANE (µg/L)	ETHANE (µg/L)	PROPANE (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	10/21/19	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	100.00	2.98	97.02	NP
	03/17/20	<4.00	<4.00	<4.00	<4.00	2070	51.1	<20.0		3.27	96.73	NP
	07/16/20	<1.0	<1.0	<1.0	<1.0	648	<10.0	<20.0		3.88	96.12	NP
	10/29/20	<4.00	<4.00	<4.00	<4.00	202	<10.0	<10.0		3.51	96.49	NP
MW-2	10/21/19	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	100.06	3.03	97.03	NP
	03/17/20	<4.00	<4.00	<4.00	<4.00	287	<10.0	<20.0		3.32	96.74	NP
	07/16/20	<1.0	<1.0	<1.0	<1.0	575	<10.0	<20.0		3.93	96.13	NP
	10/29/20	<4.00	<4.00	<4.00	<4.00	402	<10.0	<10.0		3.58	96.48	NP
MW-3	10/21/19	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	99.80	2.83	96.97	NP
	03/17/20	<4.00	<4.00	<4.00	<4.00	141	<10.0	<20.0		3.07	96.73	NP
	07/16/20	<1.0	<1.0	<1.0	<1.0	944	<10.0	<20.0		3.68	96.12	NP
	10/29/20	<4.00	<4.00	<4.00	<4.00	180	<10.0	<10.0		3.35	96.45	NP
MW-4	10/21/19	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	99.94	2.97	96.97	NP
	03/17/20	<4.00	<4.00	<4.00	<4.00	8960	1690	24.2		3.21	96.73	NP
	07/16/20	<1.0	<1.0	<1.0	<1.0	6350	1320	<20.0		3.83	96.11	NP
	10/29/20	<4.00	<4.00	<4.00	<4.00	5970	1070	28.6		3.48	96.46	NP
MW-5	10/21/19	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	99.87	2.88	96.99	NP
	03/17/20	<4.00	<4.00	<4.00	<4.00	9710	4310	733		3.13	96.74	NP
	07/16/20	<1.0	<1.0	<1.0	<1.0	4680	724	43.0		3.78	96.09	NP
	10/29/20	<4.00	<4.00	<4.00	<4.00	4890	1180	136.0		3.47	96.40	NP
MW-6	08/21/20	<4.00	<4.00	<4.00	<4.00	<10.0	<13.0	<18.6	99.12	4.03	95.09	NP
	10/29/20	<1.0	<1.0	<1.0	<1.0	118	14.6	<10.0		2.82	96.30	NP
MW-7	08/21/20	<4.00	<4.00	<4.00	<4.00	<10.0	<13.0	<18.6	99.39	4.21	95.18	NP
	10/29/20	<1.0	<1.0	<1.0	<1.0	<6.6	<5.6	<10.0		2.92	96.47	NP
MW-8	08/21/20	<4.00	<4.00	<4.00	<4.00	135	<13.0	<18.6	99.71	4.41	95.30	NP
	10/29/20	<1.0	<1.0	<1.0	<1.0	115	<10.0	<10.0		3.08	96.63	NP
MW-9	08/21/20	<4.00	<4.00	<4.00	<4.00	2950	<13.0	<18.6	98.84	4.56	94.28	NP
	10/29/20	<1.0	<1.0	<1.0	<1.0	994	<10.0	<10.0		3.21	95.63	NP
MW-10	08/21/20	<4.00	<4.00	<4.00	<4.00	34.1	<13.0	<18.6	99.89	4.61	95.28	NP
	10/29/20	<4.00	<4.00	<4.00	<4.00	<5.8	<10.0	<10.0		3.27	96.62	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	METHANE (µg/L)	ETHANE (µg/L)	PROPANE (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-11	08/21/20	<4.00	<4.00	<4.00	<4.00	<10.0	<13.0	<18.6	99.18	4.11	95.07	NP
	10/29/20	<4.00	<4.00	<4.00	<4.00	<10.0	<10.0	<10.0		2.75	96.43	NP
MW-12	08/21/20	<4.00	<4.00	<4.00	<4.00	<10.0	<13.0	<18.6	98.88	3.94	94.94	NP
	10/29/20	<4.00	<4.00	<4.00	<4.00	<10.0	<10.0	<10.0		2.67	96.21	NP
Weezer G3-21 (surface)	12/17/19	<4.00	<4.00	<4.00	<4.00	14200	6070	2850	NAP	NAP	NAP	NAP
	08/28/20	NA	NA	NA	NA	447	169	67.5	NAP	NAP	NAP	NAP
Weezer G3-22 (surface) aka G2-32, G2-22	12/17/19	<4.00	<4.00	<4.00	<4.00	16400	6750	3180	NAP	NAP	NAP	NAP
	08/28/20	NA	NA	NA	NA	1340	416	154	NAP	NAP	NAP	NAP
Weezer G3-24 (surface)	12/17/19	<4.00	<4.00	<4.00	<4.00	3320	1020	437	NAP	NAP	NAP	NAP
	08/28/20	NA	NA	NA	NA	2570	1050	439	NAP	NAP	NAP	NAP
Weezer G3-23 (surface) aka G3-33	12/17/19	<4.00	<4.00	<4.00	<4.00	12400	5500	2580	NAP	NAP	NAP	NAP
	08/28/20	NA	NA	NA	NA	5610	2340	100	NAP	NAP	NAP	NAP
Weezer G2-33 (surface)	08/28/20	NA	NA	NA	NA	3000	1170	472	NAP	NAP	NAP	NAP
Table 910-1 Limits		5	560	700	1,400							

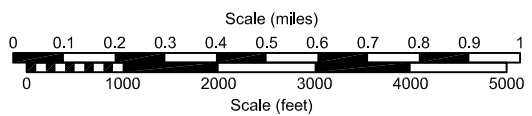
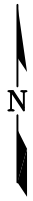
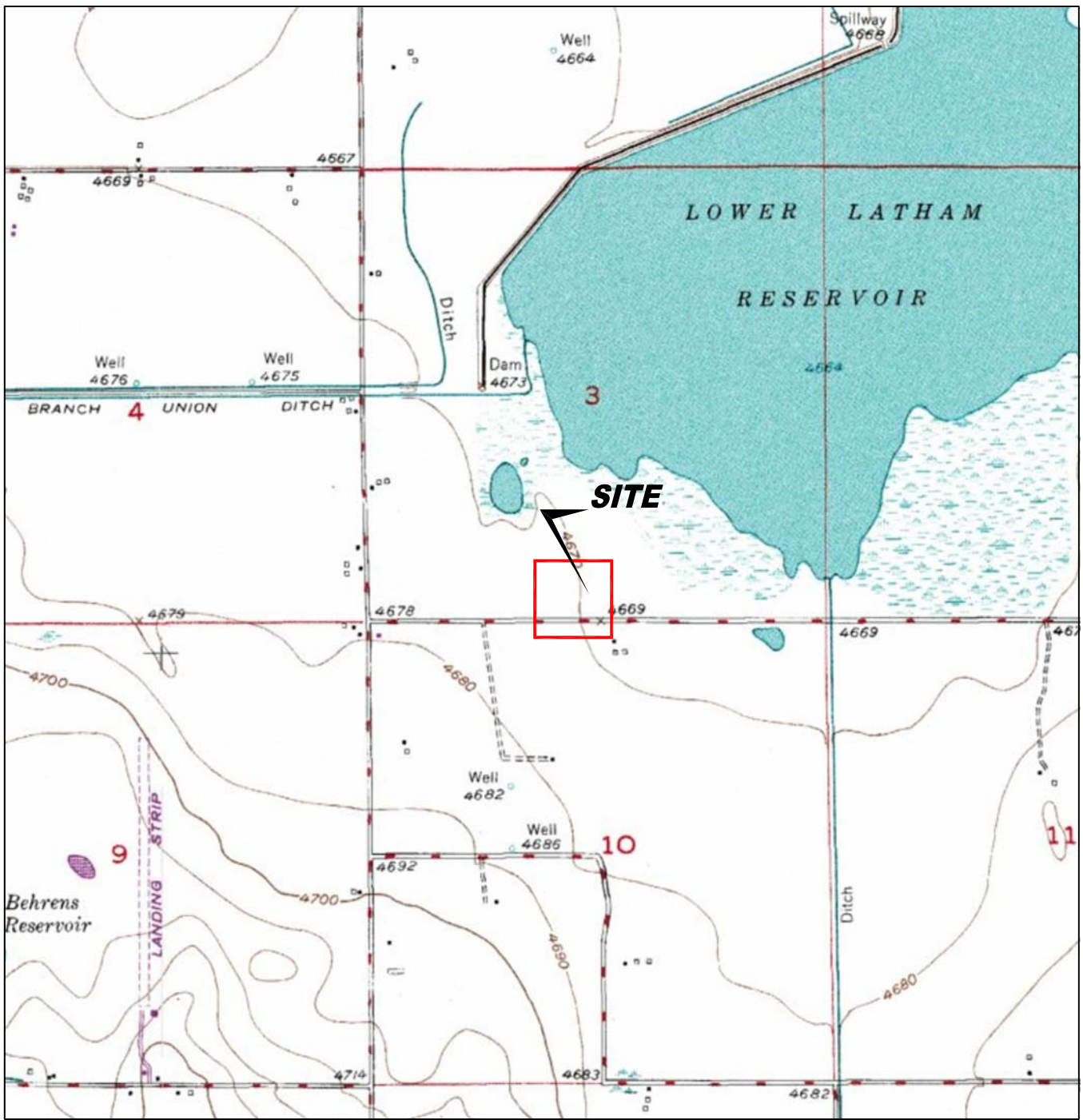
Bold face values exceed the COGCC limits

NP - No Free Product

NA - Not Analyzed

NAP - Not Applicable

## FIGURES



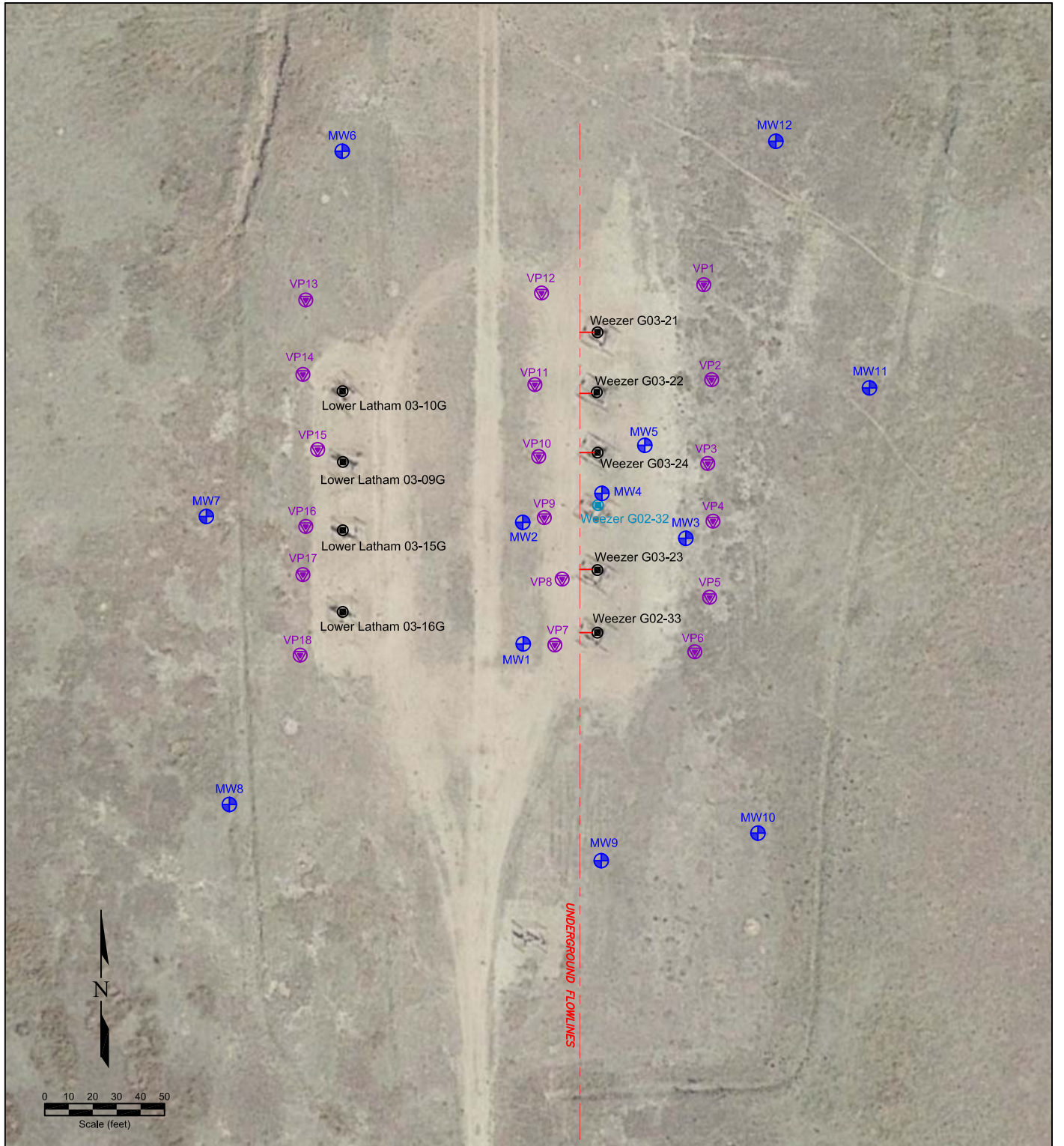
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**NOBLE ENERGY, INC. ~ WEEZER G02-32**  
 SESW Section 3, T4N, R65W ~ 40.33602°, -104.65135°  
 Weld County, Colorado

Project No. <b>C019-078</b>	Prepared by	Drawn by <b>TA</b>
Date <b>11/25/20</b>	Reviewed by <b>EB</b>	Filename <b>19078T</b>





**LEGEND**

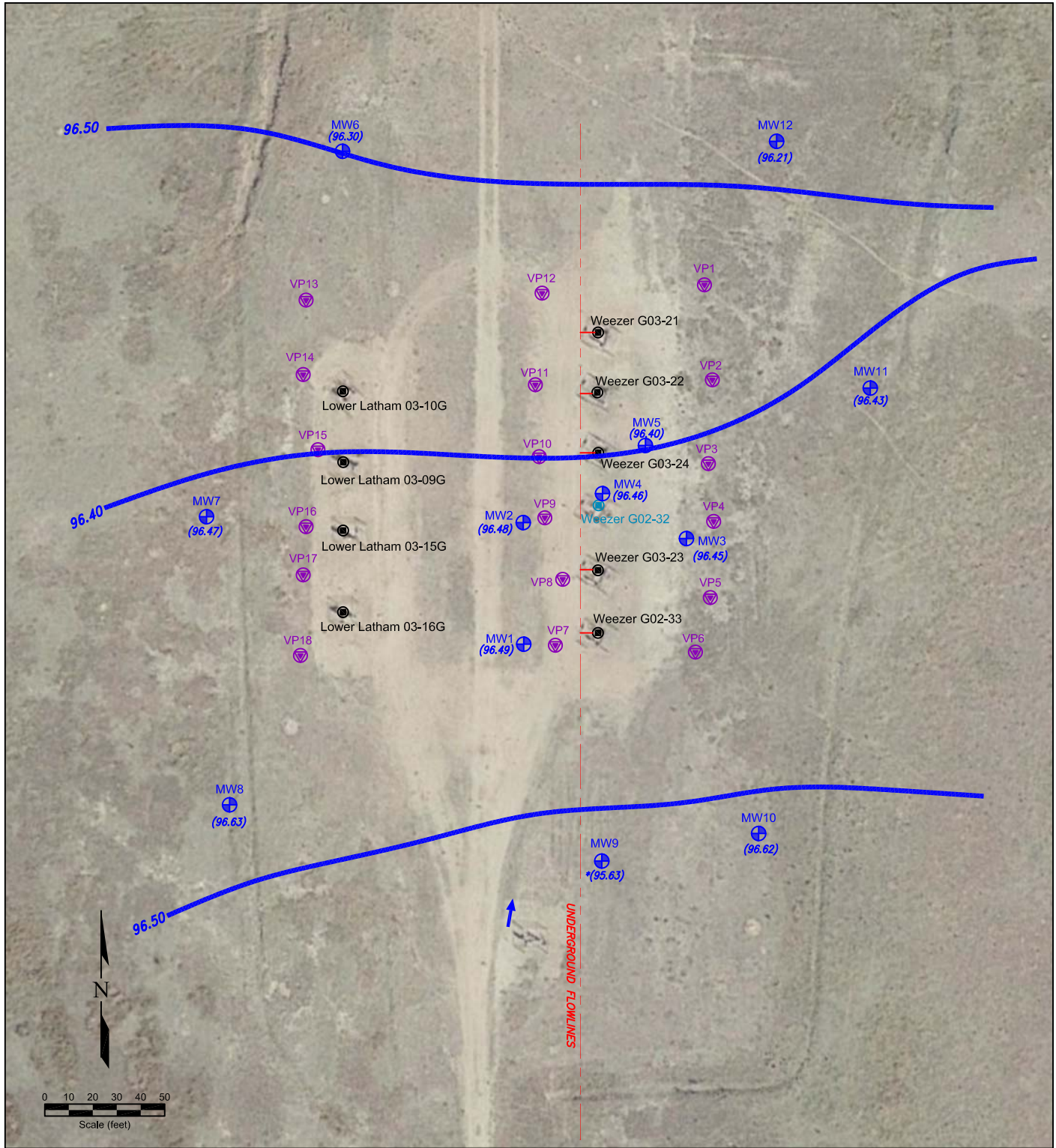
- WELL HEAD LOCATION
- MONITORING WELL
- VAPOR EXTRACTION WELL
- FORMER FACILITY
- UNDERGROUND FLOW LINE

**Figure 2  
SITE MAP**

**NOBLE ENERGY, INC. ~ WEEZER G02-32**  
 SESW Section 3, T4N, R65W ~ 40.33602°, -104.65135°  
 Weld County, Colorado

Project No. <b>C019-078</b>	Prepared by	Drawn by <b>TA</b>
Date <b>11/25/20</b>	Reviewed by <b>EB</b>	Filename <b>19078Q</b>





**LEGEND**









-  WELL HEAD LOCATION
-  MONITORING WELL
-  VAPOR EXTRACTION WELL
-  FORMER FACILITY
-  UNDERGROUND FLOW LINE
-  NOT USED FOR CONTOURING  
GROUND WATER ELEVATION  
(feet above mean sea level)
-  WATER TABLE CONTOUR  
(feet above mean sea level)
-  INFERRED GROUND WATER FLOW DIRECTION

Figure 3

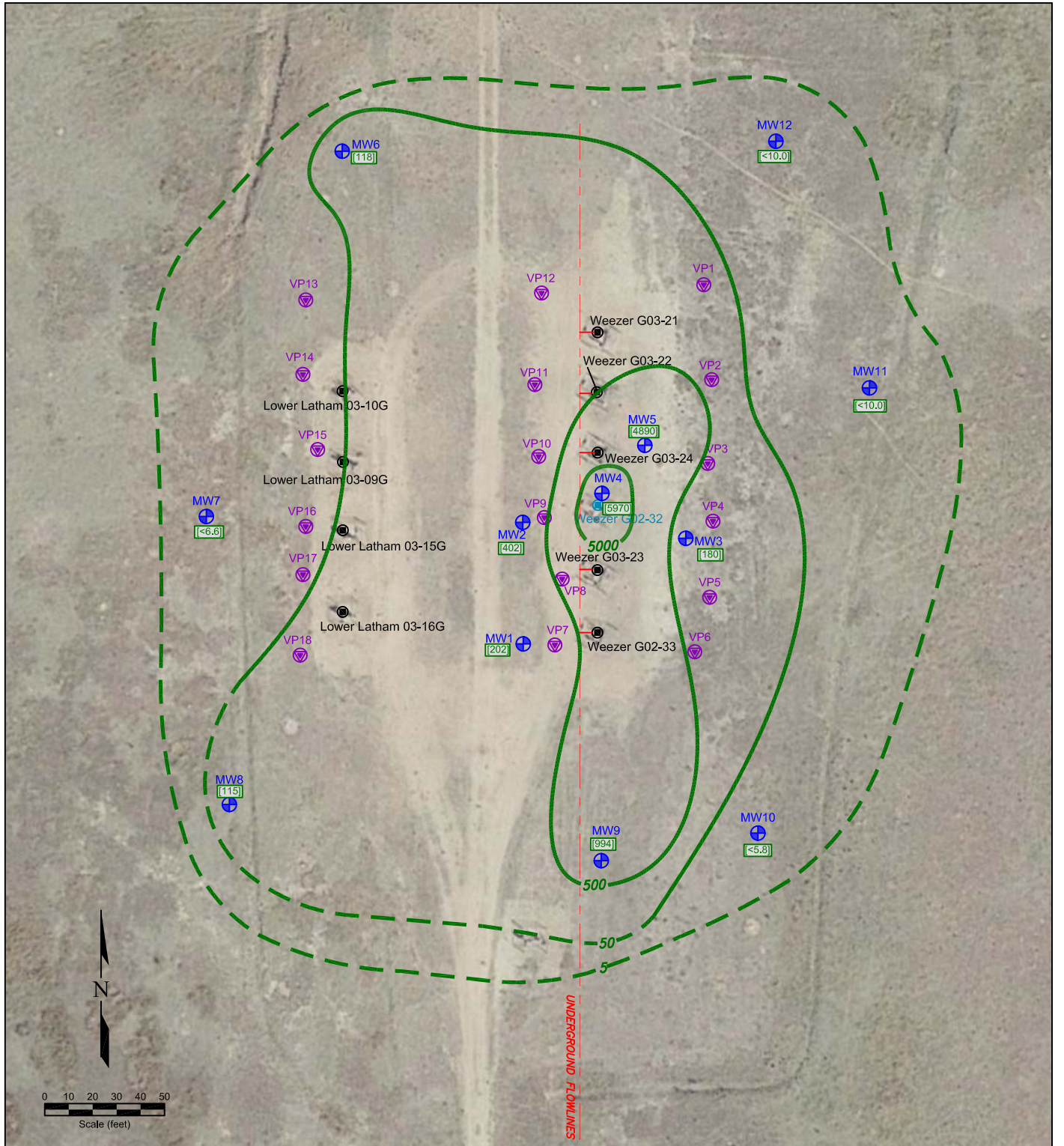
**INFERRED GROUNDWATER CONTOUR MAP**  
October 29, 2020

**NOBLE ENERGY, INC. ~ WEEZER G02-32**  
SESW Section 3, T4N, R65W ~ 40.33602°, -104.65135°  
Weld County, Colorado

Project No. <b>C019-078</b>	Prepared by	Drawn by <b>TA</b>
Date <b>11/25/20</b>	Reviewed by <b>EB</b>	Filename <b>19078Q</b>







**LEGEND**

- WELL HEAD LOCATION
- MONITORING WELL
- VAPOR EXTRACTION WELL
- FORMER FACILITY
- UNDERGROUND FLOW LINE

5970 METHANE CONCENTRATION (ug/L)  
5000 METHANE ISO-CONCENTRATION (dashed where inferred)

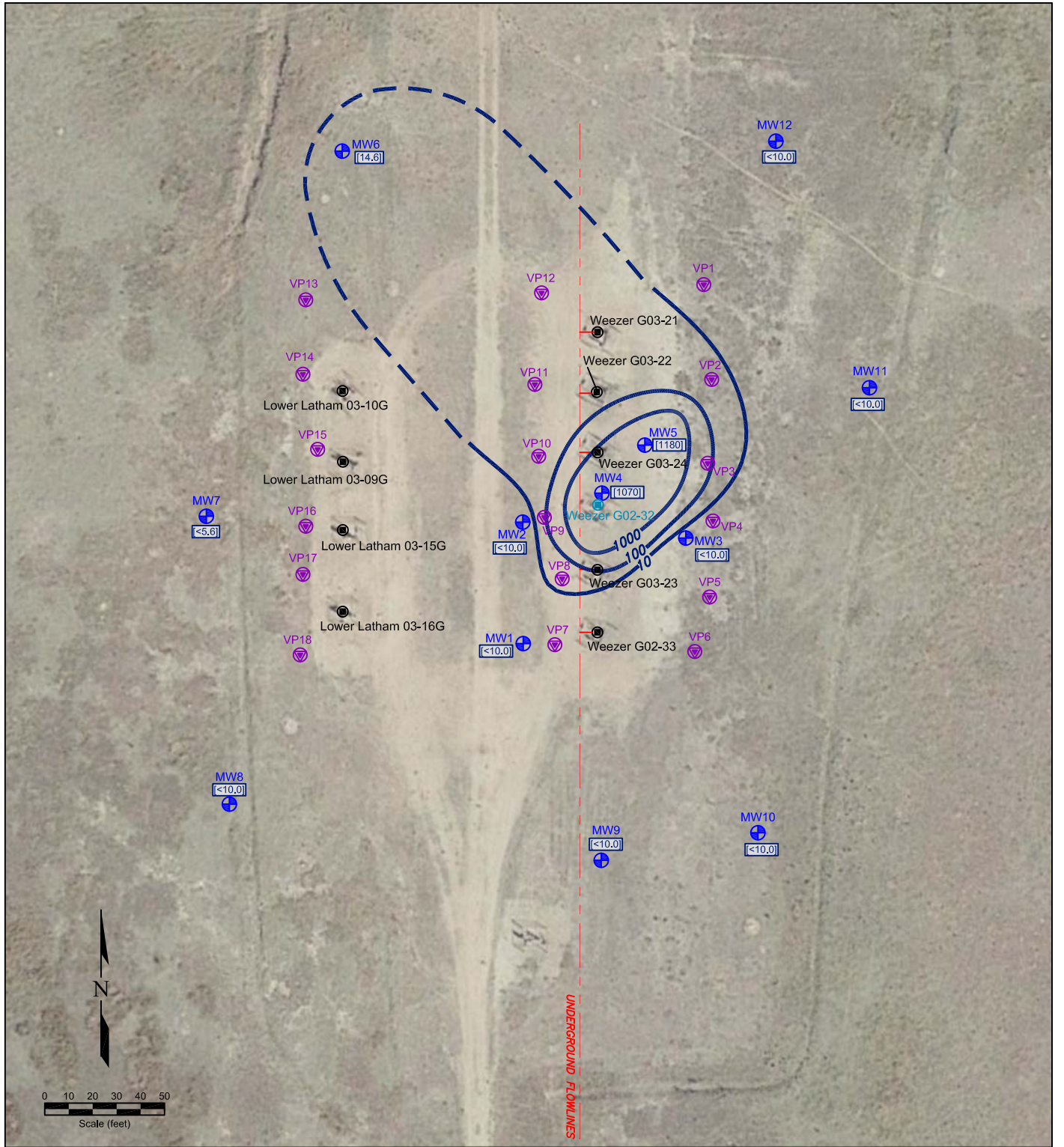
Figure 5

**METHANE ISO-CONCENTRATION MAP  
October 29, 2020**

**NOBLE ENERGY, INC. ~ WEEZER G02-32**  
 SESW Section 3, T4N, R65W ~ 40.33602°, -104.65135°  
 Weld County, Colorado

Project No. <b>C019-078</b>	Prepared by	Drawn by <b>TA</b>
Date <b>11/25/20</b>	Reviewed by <b>EB</b>	Filename <b>19078Q</b>





**LEGEND**

- WELL HEAD LOCATION
- MONITORING WELL
- VAPOR EXTRACTION WELL
- FORMER FACILITY
- UNDERGROUND FLOW LINE

ETHANE CONCENTRATION (ug/L)

ETHANE ISO-CONCENTRATION (dashed where inferred)

Figure 6

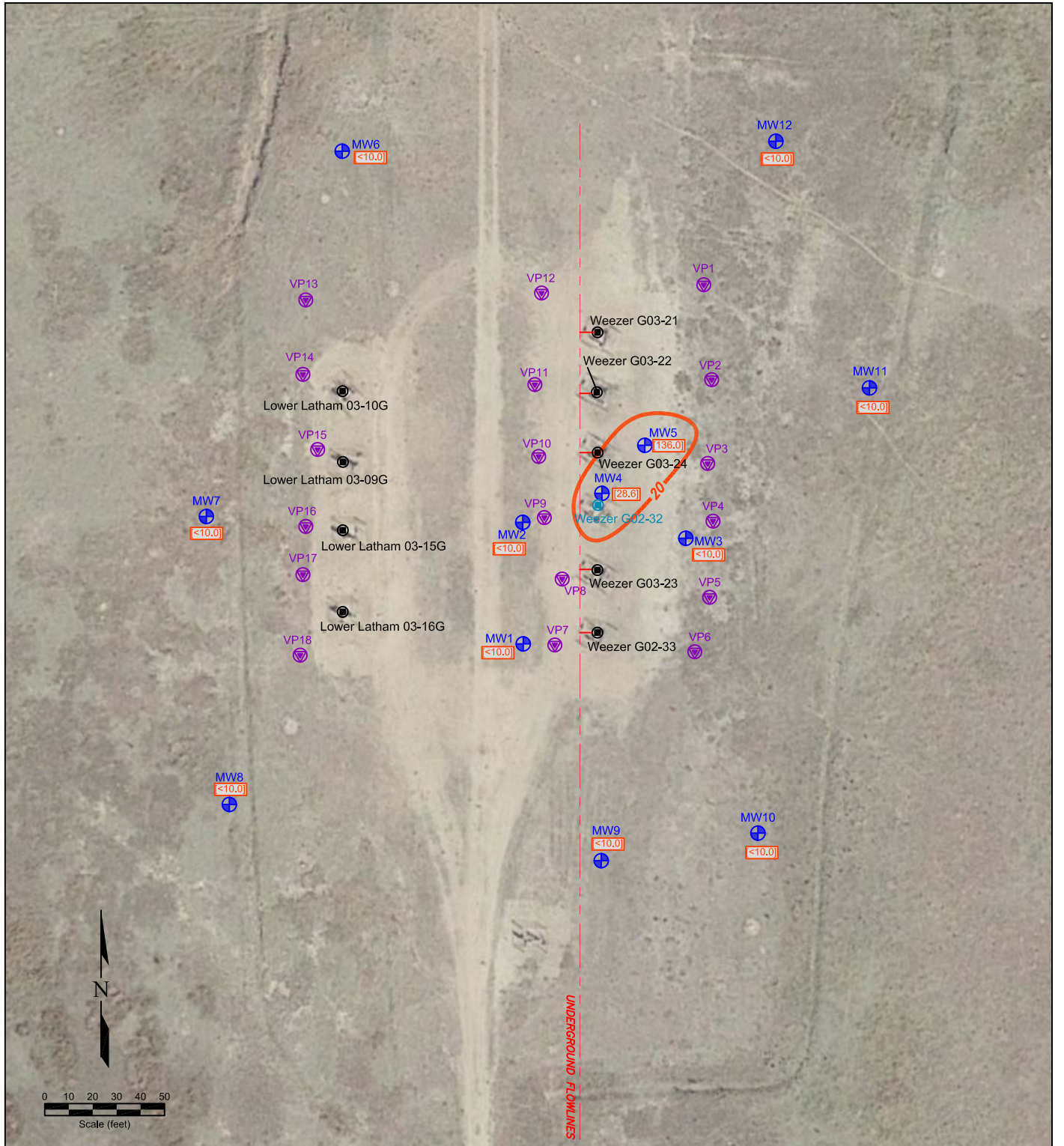
**ETHANE ISO-CONCENTRATION MAP**

**October 29, 2020**

**NOBLE ENERGY, INC. ~ WEEZER G02-32**  
 SESW Section 3, T4N, R65W ~ 40.33602°, -104.65135°  
 Weld County, Colorado

Project No. <b>C019-078</b>	Prepared by	Drawn by <b>TA</b>
Date <b>12/4/20</b>	Reviewed by <b>EB</b>	Filename <b>19078Q</b>





**LEGEND**

-  WELL HEAD LOCATION
-  MONITORING WELL
-  VAPOR EXTRACTION WELL
-  FORMER FACILITY
-  UNDERGROUND FLOW LINE

 PROPANE CONCENTRATION (ug/L)

 PROPANE ISO-CONCENTRATION (dashed where inferred)

Figure 7

**PROPANE ISO-CONCENTRATION MAP  
October 29, 2020**

**NOBLE ENERGY, INC. ~ WEEZER G02-32**  
SESW Section 3, T4N, R65W ~ 40.33602°, -104.65135°  
Weld County, Colorado

Project No. <b>C019-078</b>	Prepared by <b>TA</b>	Drawn by <b>TA</b>
Date <b>11/25/20</b>	Reviewed by <b>EB</b>	Filename <b>19078Q</b>



APPENDIX A

LABORATORY DOCUMENTATION

November 06, 2020

**Fremont Environmental**

**Paul Henehan**

**8305 6th St, PO Box 1289**

**Wellington CO 80549**

**Project Name - Noble - Weezer G02-32**

**Project Number - C019-078**

Attached are your analytical results for Noble - Weezer G02-32 received by Origins Laboratory, Inc. October 30, 2020. This project is associated with Origins project number Y010390-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C019-078  
Project: Noble - Weezer G02-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	Y010390-01	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-2	Y010390-02	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-3	Y010390-03	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-4	Y010390-04	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-5	Y010390-05	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-6	Y010390-06	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-7	Y010390-07	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-8	Y010390-08	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-9	Y010390-09	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-10	Y010390-10	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-11	Y010390-11	Water	October 29, 2020 0:00	10/30/2020 09:00
MW-12	Y010390-12	Water	October 29, 2020 0:00	10/30/2020 09:00

Origins Laboratory, Inc.



*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  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: C019-078  
 Project: Noble - Weezer G02-32

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y010390

Client: Fremont

Client Project ID: Weezer G02-32

Checklist Completed by: SG

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10/30/20

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other:

Cooler Number/Temperature: 1 10.3 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<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"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>NO sample times</u>
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 with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: JM (Project Manager)

Date/Time Reviewed: 11-2-20

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: C019-078  
 Project: Noble - Weezer G02-32

**MW-1**

**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-01 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	BOJ3004	TEM	10/30/2020	11/02/2020	Ua
Toluene	ND	4.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	4.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	4.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	ND	10.0	ug/L	1	11111		10/29/2020	11/03/2020	U
Methane	<b>202</b>	10.0	"	"	"		"	"	
n-Propane	ND	10.0	"	"	"		"	"	U

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Paul Henehan  
 Project Number: C019-078  
 Project: Noble - Weezer G02-32

**MW-2**

**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-02 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	BOJ3004	TEM	10/30/2020	11/02/2020	Ua
Toluene	ND	4.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	4.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	4.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	ND	10.0	ug/L	1	11111		10/29/2020	11/03/2020	U
Methane	402	10.0	"	"	"		"	"	
n-Propane	ND	10.0	"	"	"		"	"	U

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 Project Number: C019-078  
 Project: Noble - Weezer G02-32

**MW-3**

**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-03 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	BOJ3004	TEM	10/30/2020	11/02/2020	Ua
Toluene	ND	4.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	4.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	4.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	ND	10.0	ug/L	1	11111		10/29/2020	11/03/2020	U
Methane	<b>180</b>	10.0	"	"	"		"	"	
n-Propane	ND	10.0	"	"	"		"	"	U

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Paul Henehan  
 Project Number: C019-078  
 Project: Noble - Weezer G02-32

**MW-4**

**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-04 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	BOJ3004	TEM	10/30/2020	11/02/2020	Ua
Toluene	ND	4.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	4.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	4.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	<b>1070</b>	10.0	ug/L	1	11111		10/29/2020	11/03/2020	
Methane	<b>5970</b>	10.0	"	"	"		"	"	
n-Propane	<b>28.6</b>	10.0	"	"	"		"	"	

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 Project: Noble - Weezer G02-32

**MW-5**

**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-05 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	BOJ3004	TEM	10/30/2020	11/02/2020	Ua
Toluene	ND	4.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	4.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	4.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	<b>1180</b>	10.0	ug/L	1	11111		10/29/2020	11/03/2020	
Methane	<b>4890</b>	10.0	"	"	"		"	"	
n-Propane	<b>136</b>	10.0	"	"	"		"	"	

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Paul Henehan  
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 Project: Noble - Weezer G02-32

**MW-6**

**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-06 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	BOJ3004	TEM	10/30/2020	10/31/2020	Ua
Toluene	ND	1.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	14.6	10.0	ug/L	1	11111		10/29/2020	11/03/2020	
Methane	118	10.0	"	"	"		"	"	
n-Propane	ND	10.0	"	"	"		"	"	U

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 Project: Noble - Weezer G02-32

**MW-7**

**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-07 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	BOJ3004	TEM	10/30/2020	10/31/2020	Ua
Toluene	ND	1.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	ND	5.6	ug/L	1	11111		10/29/2020	11/03/2020	U
Methane	ND	6.6	"	"	"		"	"	U
n-Propane	ND	10.0	"	"	"		"	"	U

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 Project: Noble - Weezer G02-32

**MW-8**

**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-08 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	BOJ3004	TEM	10/30/2020	10/31/2020	Ua
Toluene	ND	1.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	ND	10.0	ug/L	1	11111		10/29/2020	11/03/2020	U
Methane	115	10.0	"	"	"		"	"	
n-Propane	ND	10.0	"	"	"		"	"	U

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Paul Henehan  
 Project Number: C019-078  
 Project: Noble - Weezer G02-32

**MW-9**

**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-09 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	BOJ3004	TEM	10/30/2020	10/31/2020	Ua
Toluene	ND	1.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	ND	10.0	ug/L	1	11111		10/29/2020	11/03/2020	U
Methane	<b>994</b>	10.0	"	"	"		"	"	
n-Propane	ND	10.0	"	"	"		"	"	U

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Paul Henehan  
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 Project: Noble - Weezer G02-32

**MW-10**  
**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-10 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	BOJ3004	TEM	10/30/2020	11/02/2020	Ua
Toluene	ND	4.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	4.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	4.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	ND	10.0	ug/L	1	11111		10/29/2020	11/03/2020	U
Methane	ND	5.8	"	"	"		"	"	U
n-Propane	ND	10.0	"	"	"		"	"	U

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 Project: Noble - Weezer G02-32

**MW-11**  
**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-11 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	BOJ3004	TEM	10/30/2020	11/02/2020	Ua
Toluene	ND	4.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	4.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	4.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	ND	10.0	ug/L	1	11111		10/29/2020	11/03/2020	U
Methane	ND	10.0	"	"	"		"	"	U
n-Propane	ND	10.0	"	"	"		"	"	U

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**MW-12**  
**10/29/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y010390-12 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	BOJ3004	TEM	10/30/2020	10/31/2020	Ua
Toluene	ND	1.00	"	"	"	TEM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

Ethane	ND	10.0	ug/L	1	11111		10/29/2020	11/03/2020	U
Methane	ND	10.0	"	"	"		"	"	U
n-Propane	ND	10.0	"	"	"		"	"	U

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 Wellington CO 80549

Paul Henehan  
 Project Number: C019-078  
 Project: Noble - Weezer G02-32

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0J3004 - EPA 5030B (Water)**

**Blank (B0J3004-BLK1)**

Prepared: 10/30/2020 Analyzed: 10/30/2020

Benzene	ND	1.00	ug/L							Ua
Toluene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.5	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

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 Wellington CO 80549

Paul Henehan  
 Project Number: C019-078  
 Project: Noble - Weezer G02-32

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0J3004 - EPA 5030B (Water)**

**LCS (B0J3004-BS1)**

Prepared: 10/30/2020 Analyzed: 10/30/2020

Benzene	40.3	1.00	ug/L	50.0		80.6	70-130			
Toluene	44.3	1.00	"	50.0		88.7	70-130			
Ethylbenzene	43.2	1.00	"	50.0		86.3	70-130			
m,p-Xylene	86.6	2.00	"	100		86.6	70-130			
o-Xylene	45.9	1.00	"	50.0		91.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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Paul Henehan  
 Project Number: C019-078  
 Project: Noble - Weezer G02-32

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0J3004 - EPA 5030B (Water)**

<b>Matrix Spike (B0J3004-MS1)</b>	<b>Source: Y010384-21</b>			<b>Prepared: 10/30/2020 Analyzed: 10/30/2020</b>						
Benzene	40.1	1.00	ug/L	50.0	ND	80.3	70-130			
Toluene	42.6	1.00	"	50.0	ND	85.3	70-130			
Ethylbenzene	41.3	1.00	"	50.0	ND	82.6	70-130			
m,p-Xylene	82.4	2.00	"	100	0.210	82.2	70-130			
o-Xylene	44.9	1.00	"	50.0	ND	89.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Project Number: C019-078  
 Project: Noble - Weezer G02-32

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0J3004 - EPA 5030B (Water)**

Matrix Spike Dup (B0J3004-MSD1)	Source: Y010384-21			Prepared: 10/30/2020 Analyzed: 10/30/2020						
Benzene	40.3	1.00	ug/L	50.0	ND	80.6	70-130	0.348	20	
Toluene	42.3	1.00	"	50.0	ND	84.7	70-130	0.683	20	
Ethylbenzene	41.2	1.00	"	50.0	ND	82.4	70-130	0.242	20	
m,p-Xylene	82.5	2.00	"	100	0.210	82.3	70-130	0.170	20	
o-Xylene	45.0	1.00	"	50.0	ND	90.0	70-130	0.289	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.3	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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*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  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C019-078  
Project: Noble - Weezer G02-32

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**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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