

TABLE 1  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
QC A 32-19, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-058

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
AST-Cen Surface	5/24/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST-E Surface	5/24/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST-W Surface	5/24/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV-E Floor 5ft	5/24/2022	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV-E N Wall 3ft	5/24/2022	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV-W Floor 5ft	5/24/2022	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV-W N Wall 3ft	5/24/2022	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	1.5	120.0	<50
SEP-N Surface	5/24/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	1.5	<50	<50
SEP-S Surface	5/24/2022	0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-1 7 Ft	6/23/2022	7	<0.0020	<0.0050	<0.0050	0.01	<0.0050	<b>0.04</b>	<0.0038	0.89	300	<50
MW-1 26 Ft	6/23/2022	26	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
E Wall 6 ft	12/07/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
Floor 8 ft	12/07/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
N Wall 6 ft	12/07/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S Wall 6 ft	12/07/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W Wall 6 ft	12/07/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

\*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
QC A 32-19, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-058

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
AST-Cen Surface	5/24/2022	0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST-E Surface	5/24/2022	0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST-W Surface	5/24/2022	0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00666
PWV-E Floor 5ft	5/24/2022	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.00871</b>	0.0061
PWV-E N Wall 3ft	5/24/2022	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV-W Floor 5ft	5/24/2022	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV-W N Wall 3ft	5/24/2022	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00575
SEP-N Surface	5/24/2022	0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-S Surface	5/24/2022	0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-1 7 Ft	6/23/2022	7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00514	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0125</b>	0.00555
MW-1 26 Ft	6/23/2022	26	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
E Wall 6 ft	12/07/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Floor 8 ft	12/07/2022	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
N Wall 6 ft	12/07/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
S Wall 6 ft	12/07/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
W Wall 6 ft	12/07/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the ECMC Table 915-1 concentrations  
Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)  
\* Indicates laboratory minimum detection limit in excess of SSL

**TABLE 3**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE ENERGY INC.**  
**QC A 32-19, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-058**

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BKG 7 ft	12/07/2022	7	8.21	0.435	0.578	0.023
E Wall 6 ft	12/07/2022	6	<b>8.83</b>	0.182	0.877	0.090
Floor 8 ft	12/07/2022	8	<b>8.55</b>	0.192	0.378	0.058
N Wall 6 ft	12/07/2022	6	<b>8.84</b>	0.161	0.439	0.055
S Wall 6 ft	12/07/2022	6	<b>8.53</b>	0.198	0.349	0.0631
W Wall 6 ft	12/07/2022	6	<b>8.43</b>	0.233	0.0718	0.032
BKG-1 6ft	06/16/2023	6	8.14	NA	NA	NA
BKG-1 8ft	06/16/2023	8	8.09	NA	NA	NA
BKG-2 6ft	06/16/2023	6	8.12	NA	NA	NA
BKG-2 8ft	06/16/2023	8	8.08	NA	NA	NA
BKG-3 6ft	06/16/2023	6	8.07	NA	NA	NA
BKG-3 8ft	06/16/2023	8	8.12	NA	NA	NA
BKG-4 6ft	06/16/2023	6	8.29	NA	NA	NA
BKG-4 8ft	06/16/2023	8	8.28	NA	NA	NA
BKG-5 6ft	06/16/2023	6	7.93	NA	NA	NA
BKG-5 8ft	06/16/2023	8	8.08	NA	NA	NA
Mean Background Concentration			8.13	NA	NA	NA
Highest Background Concentration			8.29	NA	NA	NA

Bold faced values exceed the ECMC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 4  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
QC A 32-19, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-058

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BKG 7 ft	12/07/2022	7	1.88	52	0.095	<0.30	3.94	2.97	3.06	<0.282	0.0122	12.2
E Wall 6 ft	12/07/2022	6	1.76	29	0.093	<0.30	2.3	3.38	2.88	<0.277	0.00982	9.54
Floor 8 ft	12/07/2022	8	1.62	35	0.090	<0.30	2.37	2.86	2.6	<0.281	0.0104	10.3
N Wall 6 ft	12/07/2022	6	1.82	36	0.097	<0.30	2.1	3.24	2.63	<0.282	0.0104	8.91
S Wall 6 ft	12/07/2022	6	1.77	48	0.124	<0.30	2.45	4.03	2.97	<0.279	0.0133	10.1
W Wall 6 ft	12/07/2022	6	2.65	85.9	0.192	<0.30	3.61	5.51	4.09	<0.309	0.0219	14.2
BKG-1 6ft	06/16/2023	6	0.936	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG-1 8ft	06/16/2023	8	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG-2 6ft	06/16/2023	6	1.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG-2 8ft	06/16/2023	8	0.948	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG-3 6ft	06/16/2023	6	1.12	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG-3 8ft	06/16/2023	8	0.968	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG-4 6ft	06/16/2023	6	0.891	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG-4 8ft	06/16/2023	8	0.86	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG-5 6ft	06/16/2023	6	0.963	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG-5 8ft	06/16/2023	8	0.872	NA	NA	NA	NA	NA	NA	NA	NA	NA
Highest Background Concentration			1.88	NA	NA	NA	NA	NA	NA	NA	NA	NA
125% x Highest Background Concentration			2.35	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mean Background Concentration			1.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
125% x Mean Background Concentration			1.32	NA	NA	NA	NA	NA	NA	NA	NA	NA

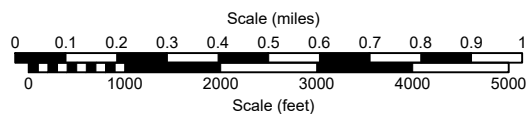
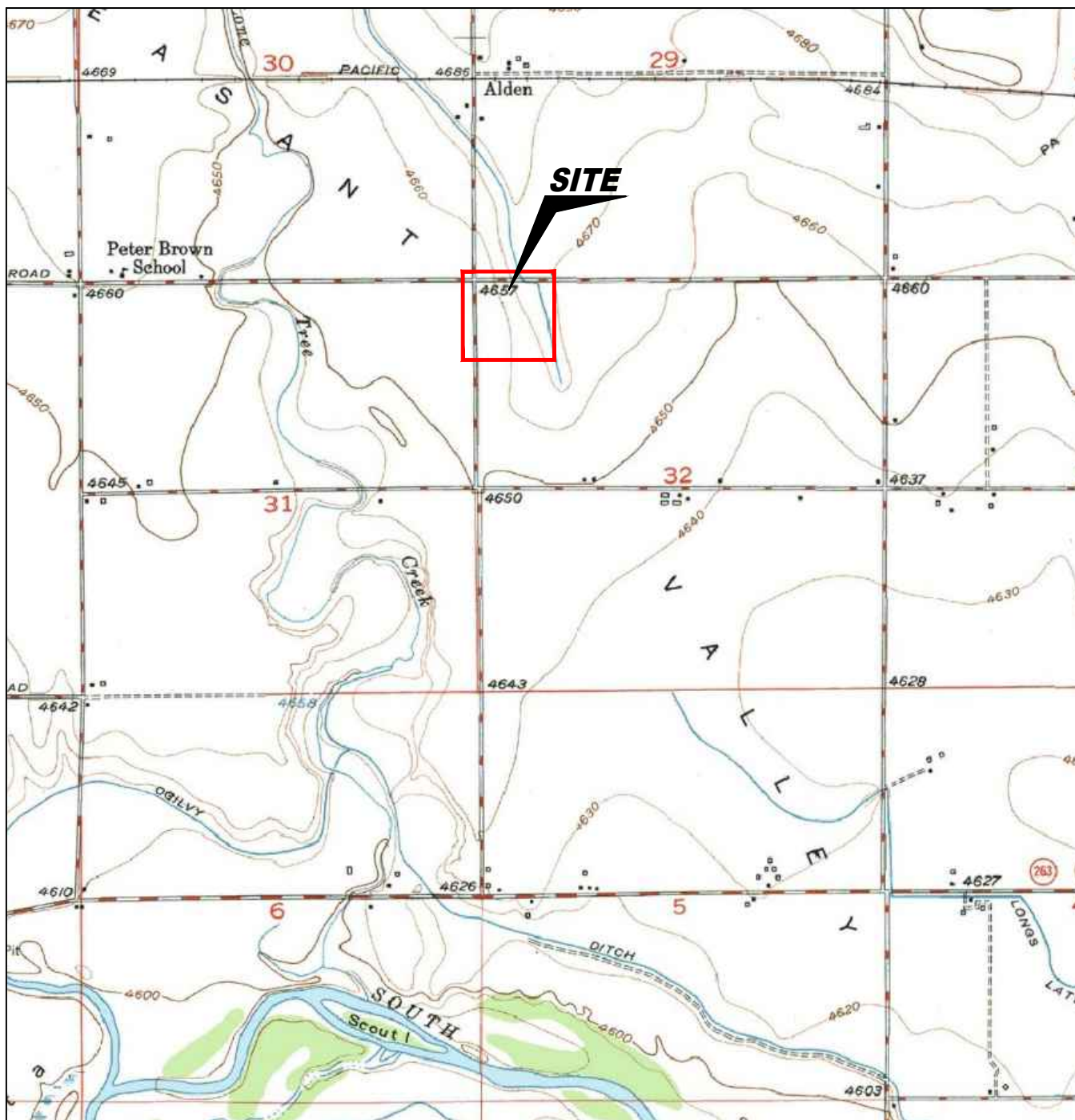
Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

Orange highlighted cells indicate samples exceeding 125% of the constituent's maximum background concentration

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**NOBLE ENERGY, INC. ~ QC A 32-19**  
 NWNW Sec. 32, T6N, R64W, 6th PM  
 Weld County, Colorado  
 40.449442°, -104.581212°

Project # <b>C022-058</b>	API # <b>05-123-32723</b>	Facility ID <b>420814</b>
Date <b>10/19/23</b>	Remediation # <b>22490</b>	Filename <b>22058T</b>







#### LEGEND

	MONITORING WELL LOCATION		ABOVE GROUND STORAGE TANK		FORMER FACILITY		CONTAINMENT BERM
	DESTROYED MONITORING WELL		FENCE LINE		EXTENT OF EXCAVATION		

Figure 2  
SITE MAP

**NOBLE ENERGY, INC. ~ QC A 32-19**  
 NWNW Sec. 32, T6N, R64W, 6th PM  
 Weld County, Colorado  
 40.449442°, -104.581212°

Project No. <b>C022-058</b>	API # <b>05-123-32723</b>	Facility # <b>420814</b>
Date <b>10/19/23</b>	Remediation # <b>22490</b>	Filename <b>22058Q1</b>





# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 22, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

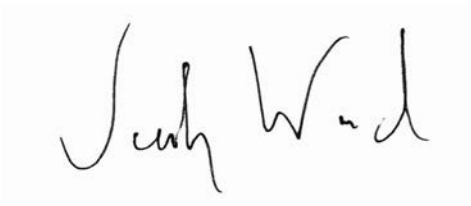
Wellington, CO 80549

RE: Noble - QC A 32-19

Work Order #2306332

Enclosed are the results of analyses for samples received by Summit Scientific on 06/16/23 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President





Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG-1 6ft	2306332-01	Soil	06/16/23 00:00	06/16/23 13:00
BKG-1 8ft	2306332-02	Soil	06/16/23 00:00	06/16/23 13:00
BKG-2 6ft	2306332-03	Soil	06/16/23 00:00	06/16/23 13:00
BKG-2 8ft	2306332-04	Soil	06/16/23 00:00	06/16/23 13:00
BKG-3 6ft	2306332-05	Soil	06/16/23 00:00	06/16/23 13:00
BKG-3 8ft	2306332-06	Soil	06/16/23 00:00	06/16/23 13:00
BKG-4 6ft	2306332-07	Soil	06/16/23 00:00	06/16/23 13:00
BKG-4 8ft	2306332-08	Soil	06/16/23 00:00	06/16/23 13:00
BKG-5 6ft	2306332-09	Soil	06/16/23 00:00	06/16/23 13:00
BKG-5 8ft	2306332-10	Soil	06/16/23 00:00	06/16/23 13:00

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

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page	of
2306332		1

<b>Client:</b> Fremont Environmental		<b>Send Data To:</b>	<b>Send Invoice To:</b>
<b>Address:</b> 8305 6th St.		<b>Project Manager:</b> Henehan	<b>Company:</b> Chevron
<b>City/State/Zip:</b> Wellington, CO		<b>E-Mail:</b> Fremont Dist. List	<b>Project Name/Location:</b>
<b>Phone:</b> 603-477-6907		<b>Project Name:</b> Noble - QC A 32-19	<b>AFE#:</b>
<b>Sampler Name:</b> Ethan Black		<b>Project Number:</b>	<b>PO/Billing Codes:</b> UWRWE-A1691-ARN
		<b>Contact:</b> Dan P.	

					Preservative				Matrix			Analysis Requested					Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEX, Naphthalene, TMBs	TPH (C6-C36)	Table 915-1 Metals	<del>As, Ba, Be, Bi, Br, Cd, Cr, Cu, Fe, Hg, Mn, Mo, Ni, Pb, Se, Si, V, Zn</del> <u>As</u>	TDS, Chloride, Sulfate	
1	BKG - 1 6FT	6/16/23		2			X			X						X		
2	BKG - 1 8FT																	
3	BKG - 2 6FT																	
4	BKG - 2 8FT																	
5	BKG - 3 6FT																	
6	BKG - 3 8FT																	
7	BKG - 4 6FT																	
8	BKG - 4 8FT																	
9	BKG - 5 6FT																	
10	BKG - 5 8FT																	
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>6/16/23 1300</u>	Received by: <u>SZ</u>	Date/Time: <u>6/16/23 1300</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>SZ</u>	Date/Time: <u>6/16/23 1300</u>	Received by: <u>DeL</u>	Date/Time: <u>6/16/23 1300</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: <u>SZ</u>	Date/Time: <u>6/16/23 1300</u>	Received by: <u>DeL</u>	Date/Time: <u>6/16/23 1300</u>	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>15.1</u>	Corrected Temperature: <u>15.1</u>	IR gun #:		HNO3 lot #:		

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2306332Client: FremontClient Project ID: Noble-GCA 32-19Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air ☐Soil/Solid ☒Water ☐Other ☐

Temp (°C)

13.1

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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"/>	
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"/>	
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"/>	
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"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<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.
AS  
Custodian Printed Name

6/  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**BKG-1 6ft**  
**2306332-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	<b>0.936</b>	0.200	mg/kg dry	1	BGF0734	06/21/23	06/21/23	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>87.3</b>		%	1	BGF0717	06/20/23	06/20/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.14</b>		pH Units	1	BGF0648	06/19/23	06/19/23	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**BKG-1 8ft**  
**2306332-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.03	0.200	mg/kg dry	1	BGF0734	06/21/23	06/21/23	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BGF0717	06/20/23	06/20/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BGF0648	06/19/23	06/19/23	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**BKG-2 6ft**  
**2306332-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.14	0.200	mg/kg dry	1	BGF0734	06/21/23	06/21/23	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BGF0717	06/20/23	06/20/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BGF0648	06/19/23	06/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**BKG-2 8ft**  
**2306332-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	<b>0.948</b>	0.200	mg/kg dry	1	BGF0734	06/21/23	06/21/23	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>88.5</b>		%	1	BGF0717	06/20/23	06/20/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.08</b>		pH Units	1	BGF0648	06/19/23	06/19/23	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**BKG-3 6ft**  
**2306332-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.12	0.200	mg/kg dry	1	BGF0734	06/21/23	06/21/23	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.1		%	1	BGF0717	06/20/23	06/20/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BGF0648	06/19/23	06/19/23	EPA 9045D	

Summit Scientific

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Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**BKG-3 8ft**  
**2306332-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	<b>0.968</b>	0.200	mg/kg dry	1	BGF0734	06/21/23	06/21/23	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>84.5</b>		%	1	BGF0717	06/20/23	06/20/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.12</b>		pH Units	1	BGF0648	06/19/23	06/19/23	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**BKG-4 6ft**  
**2306332-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	<b>0.891</b>	0.200	mg/kg dry	1	BGF0734	06/21/23	06/21/23	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>89.3</b>		%	1	BGF0717	06/20/23	06/20/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.29</b>		pH Units	1	BGF0648	06/19/23	06/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**BKG-4 8ft**  
**2306332-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	<b>0.860</b>	0.200	mg/kg dry	1	BGF0734	06/21/23	06/21/23	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>92.4</b>		%	1	BGF0717	06/20/23	06/20/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.28</b>		pH Units	1	BGF0648	06/19/23	06/19/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**BKG-5 6ft**  
**2306332-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	<b>0.963</b>	0.200	mg/kg dry	1	BGF0734	06/21/23	06/21/23	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>87.0</b>		%	1	BGF0717	06/20/23	06/20/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.93</b>		pH Units	1	BGF0648	06/19/23	06/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
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Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**BKG-5 8ft**  
**2306332-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	<b>0.872</b>	0.200	mg/kg dry	1	BGF0734	06/21/23	06/21/23	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>91.3</b>		%	1	BGF0717	06/20/23	06/20/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **06/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.08</b>		pH Units	1	BGF0648	06/19/23	06/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGF0734 - EPA 3050B**

**Blank (BGF0734-BLK1)**

Prepared & Analyzed: 06/21/23

Arsenic ND 0.200 mg/kg wet

**LCS (BGF0734-BS1)**

Prepared & Analyzed: 06/21/23

Arsenic 45.0 0.200 mg/kg wet 40.0 112 80-120

**Duplicate (BGF0734-DUP1)**

**Source: 2306332-01**

Prepared & Analyzed: 06/21/23

Arsenic 0.912 0.200 mg/kg dry 0.936 2.63 20

**Matrix Spike (BGF0734-MS1)**

**Source: 2306332-01**

Prepared & Analyzed: 06/21/23

Arsenic 14.4 0.200 mg/kg dry 45.8 0.936 29.4 75-125 QM-07

**Matrix Spike Dup (BGF0734-MSD1)**

**Source: 2306332-01**

Prepared & Analyzed: 06/21/23

Arsenic 14.2 0.200 mg/kg dry 45.8 0.936 28.9 75-125 1.73 25 QM-07

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - QC A 32-19

Project Number: UWRWE-A1691-ABN

Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

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

**Summit Scientific**

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

**Batch BGF0717 - General Preparation**

**Duplicate (BGF0717-DUP1)**

**Source: 2306329-01**

**Prepared & Analyzed: 06/20/23**

% Solids	92.0	%	91.7	0.232	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - QC A 32-19

Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BGF0648 - General Preparation**

**LCS (BGF0648-BS1)**

Prepared & Analyzed: 06/19/23

pH	9.01	pH Units	9.18	98.1	95-105
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**Duplicate (BGF0648-DUP1)**

Source: 2306267-01

Prepared & Analyzed: 06/19/23

pH	8.02	pH Units	8.04	0.249	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - QC A 32-19  
Project Number: UWRWE-A1691-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/22/23 16:14

### 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