

# **FREMONT ENVIRONMENTAL INC.**

June 27, 2020

Mr. Howard Aamold  
Noble Midstream Partners  
2115 117<sup>th</sup> Ave,  
Greeley, CO 80634

Subject:     **Excavation and Site Investigation Report**  
              Wells Ranch Central Gathering Facility  
              NWNW Sec 22, T6N, R63W  
              Weld County, Colorado  
              Fremont Project No. C020-040

Dear Mr. Aamold:

Enclosed please find a copy of the above referenced Excavation and Site Investigation Report for the Wells Ranch Central Gathering Facility (CGF) site in Weld County, Colorado. The enclosed report describes site investigation and sampling efforts to assess soil 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

**EXCAVATION AND SITE INVESTIGATION REPORT**

**NOBLE MIDSTREAM PARTNERS**

**WELLS RANCH CENTRAL GATHERING FACILITY**

**WELD COUNTY, COLORADO**

**FREMONT PROJECT NO. C020-040**

**Prepared by:**

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

**June 27, 2020**

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# **EXCAVATION AND SITE INVESTIGATION REPORT**

**NOBLE MIDSTREAM PARTNERS**

**WELLS RANCH CENTRAL GATHERING FACILITY**

**WELD COUNTY, COLORADO**

**FREMONT PROJECT NO. C020-040**

## **1.0 INTRODUCTION**

The purpose of this document is to present soil quality data collected during a site investigation at the Wells Ranch Central Gathering Facility (CGF) site in Weld County, Colorado. Impacted soil was present at the facility due to equipment failure. Twelve soil samples were collected on June 1, 2020 to determine whether remediation by excavation was successful in removing surface impacts. One of these samples did not meet the statutory limit for electrical conductivity (EC) which necessitated the collection of an additional sample to delineate the depth of soil impacts. The final sample was collected on June 23, 2020.

## **2.0 BACKGROUND INFORMATION**

### **2.1 Site Location**

The Wells Ranch CGF site is located approximately six miles northeast of Gill, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.1 miles south of the intersection of County Road 67 and County Road 68. The location is further described as the NW  $\frac{1}{4}$  of the NW  $\frac{1}{4}$  of Section 22, Township 6N, Range 63W.

### **2.2 Site History**

The site consists of the central gathering facility for Noble's Wells Ranch natural gas wells. An aboveground hose failure resulted in the loss of produced water adjacent to the processing equipment. A backhoe was used to excavate impacted soil which was typically one to three inches in depth. In areas where the produced water had pooled,

the impacted soil was up to 12 inches in depth. Approximately 100 cubic yards of impacted soil were excavated by 1888 Industrial Inc. and transported to the Waste Management Buffalo Ridge landfill in Keenesburg, Colorado as non-hazardous waste.

### **3.0 SITE INVESTIGATION ACTIVITIES**

#### **3.1 Soil Sampling**

A shallow-depth site investigation was conducted at the Wells Ranch CGF location on June 1, 2020 after the excavation work had been completed. Twelve soil samples were collected utilizing a hand shovel. Soil samples were evaluated in the field using a photoionization detector (PID). The sample locations are presented in Figure 2.

The soil samples were sent to Summit Scientific, Inc. in Golden, Colorado for the analyses of benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene, total petroleum hydrocarbons-gasoline range organics (TPH-GRO), TPH-diesel range organics (TPH-DRO), sodium adsorption ratio (SAR), pH, and electrical conductivity (EC).

Soil impacts were not observed above the Colorado Oil and Gas Conservation Commission's (COGCC's) Table 910-1 limits in 11 of the 12 soil samples. However, sample "K", which was collected from the ground surface, had an EC concentration of 6.08 mmhos/cm that exceeded the COGCC Table 910-1 limit of 4.0 mmhos/cm. Therefore, a second soil sample was collected from that location on June 23, 2020 at a depth of two feet to fully delineate the extent of EC impacts in the soil. The soil chemistry is presented on Figure 3 and summarized on Table 1. The laboratory's report is provided in Appendix C.

### **4.0 DISCUSSION**

A site investigation was conducted at the Wells Ranch CGF location on June 1, 2020 due to a hose failure at the facility. As demonstrated by the soil sampling, the petroleum

impacted soil was removed from the site by excavation. This was confirmed by the analyses of the soil samples collected from the excavated area which were below the COGCC Table 910-1 limits. Approximately 100 cubic yards of impacted soil were removed and transported to the landfill. No groundwater was encountered during the excavation. Therefore, Noble should request a no further action (NFA) determination from the COGCC.

### **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.**



6/27/20

Date\_\_\_\_\_

\_\_\_\_\_  
Paul V. Henahan, P.E.

Senior Consultant

## TABLE

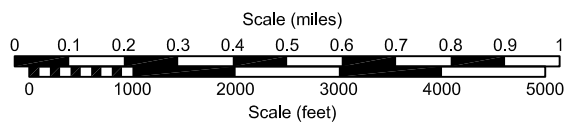
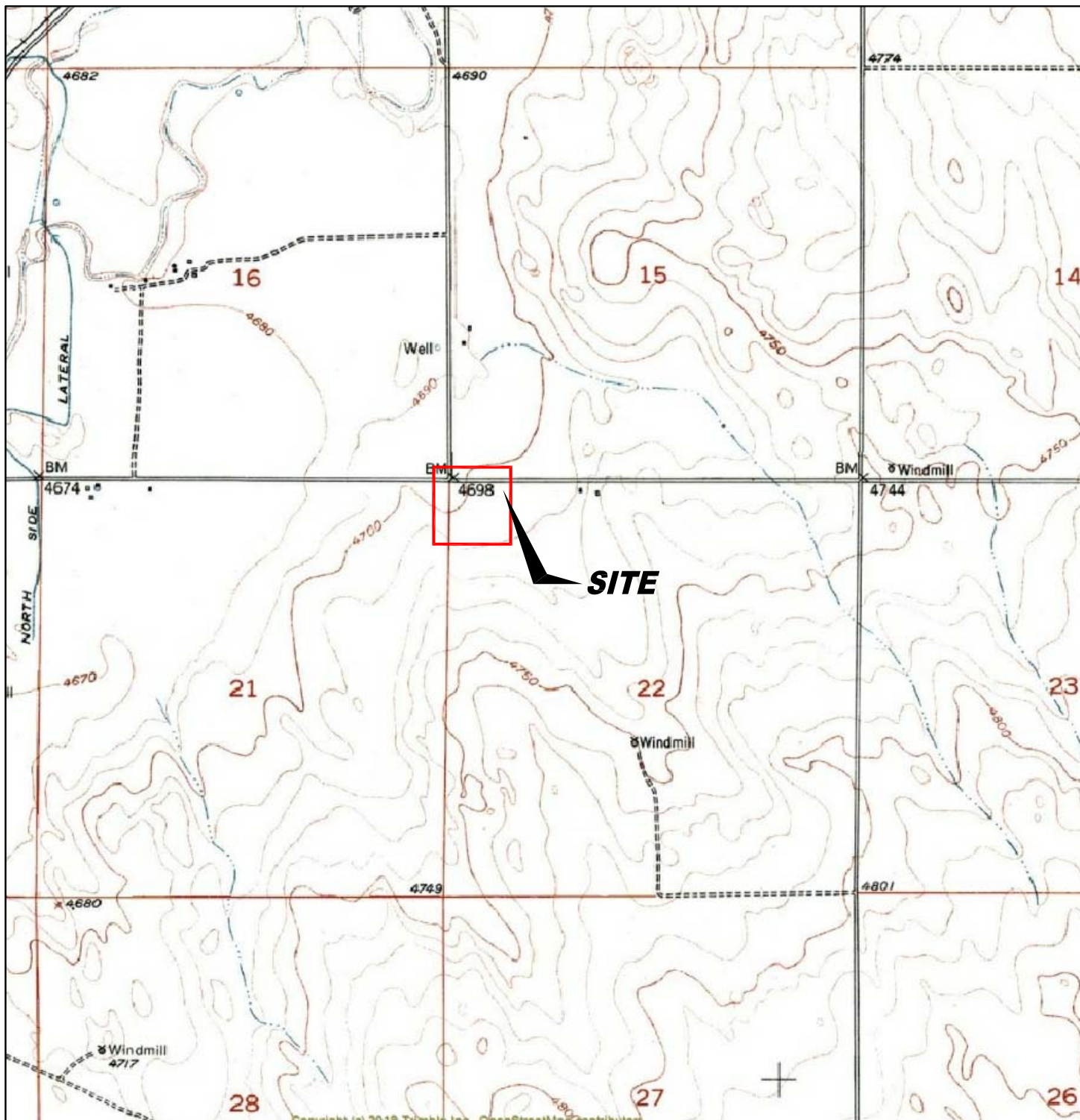
TABLE 1  
SUMMARY OF SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
WELLS RANCH CENTRAL GATHERING FACILITY, WELD COUNTY, COLORADO  
FREMONT PROJECT C020-040

Sample	Depth (ft)	Date Sampled	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	SAR units	pH pH units	EC mmhos/cm
A	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	0.221	8.95	0.325
B	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	0.352	8.77	0.53
C	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	0.117	8.81	0.439
D	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	0.339	9.00	0.438
E	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	0.218	8.89	0.338
F	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	0.683	8.6	0.801
G	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	0.305	8.42	0.926
H	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	0.301	8.81	0.461
I	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	0.222	8.68	0.425
J	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	0.278	8.47	0.624
K	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	6.83	8.5	<b>6.02</b>
I	0.1	6/1/2020	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50	<0.100	8.91	0.289
K-2 Ft	2	6/23/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.88
COGCC Table 910 Limits			0.17	85	100	175	23	500	500	12	6 to 9	4

Bold faced values exceed the COGCC Table 910-1 concentrations



## **FIGURES**



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
**SITE LOCATION MAP**

**NOBLE ENERGY, INC.**  
**Wells Ranch Gathering Facility**  
 NWNW Sec. 22, T6N, R63W ~ 40.47659°, -104.43154°  
 Weld County, Colorado

Project No.  
**C020-040**

Prepared by

Drawn by  
**TA**

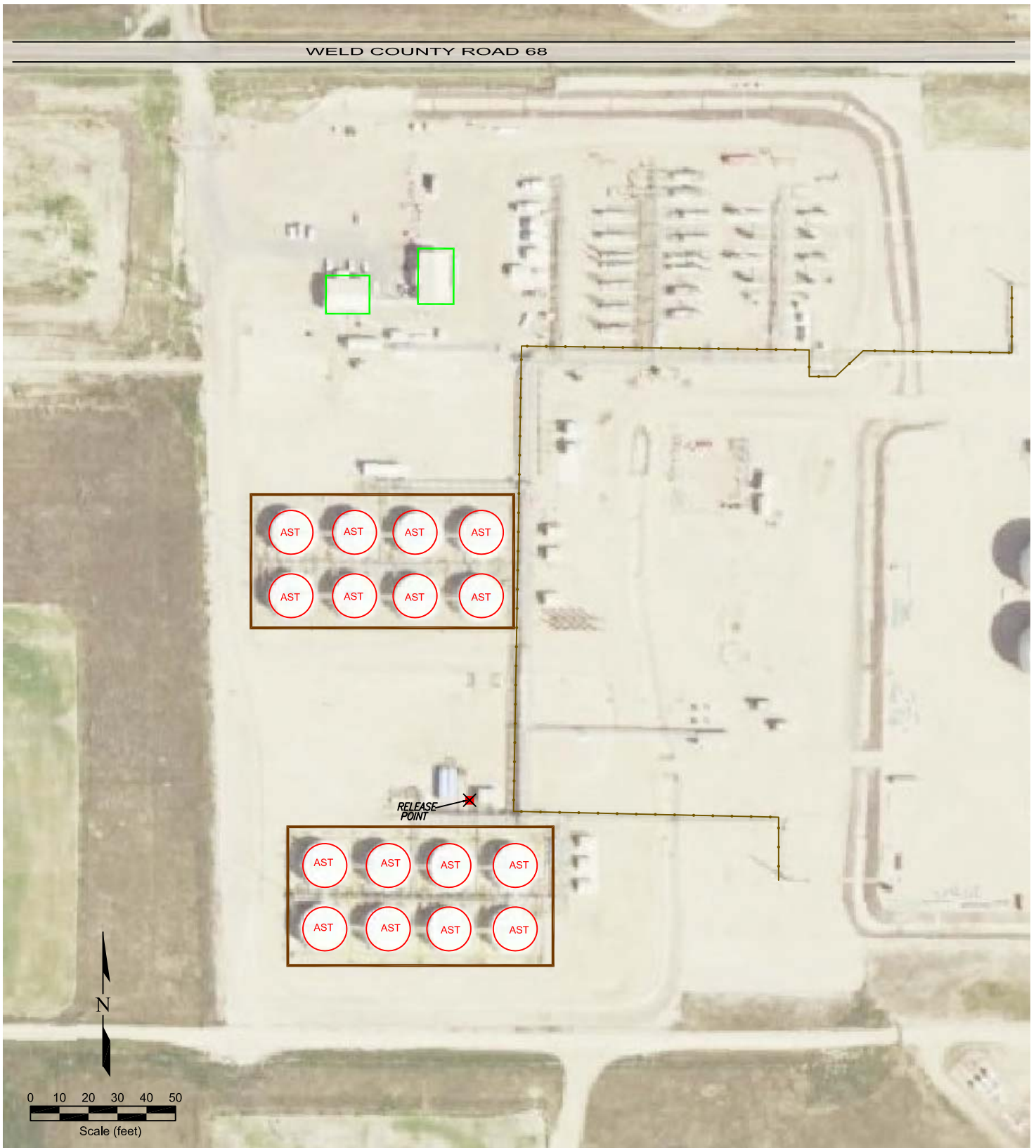
Date  
**6/29/20**

Reviewed by  
**PH**

Filename  
**20040T**



WELD COUNTY ROAD 68



**LEGEND**

- |  |                           |  |                  |
|--|---------------------------|--|------------------|
|  | RELEASE POINT             |  | BUILDING         |
|  | ABOVE GROUND STORAGE TANK |  | FENCE LINE       |
|  |                           |  | CONTAINMENT WALL |

**Figure 2  
SITE MAP**

**NOBLE ENERGY, INC.**  
**Wells Ranch Gathering Facility**  
 NWNW Sec. 22, T6N, R63W ~ 40.47659°, -104.43154°  
 Weld County, Colorado

Project No.  
**C020-040**

Prepared by

Drawn by  
**TA**

Date  
**6/29/20**

Reviewed by  
**PH**

Filename  
**20040Q**





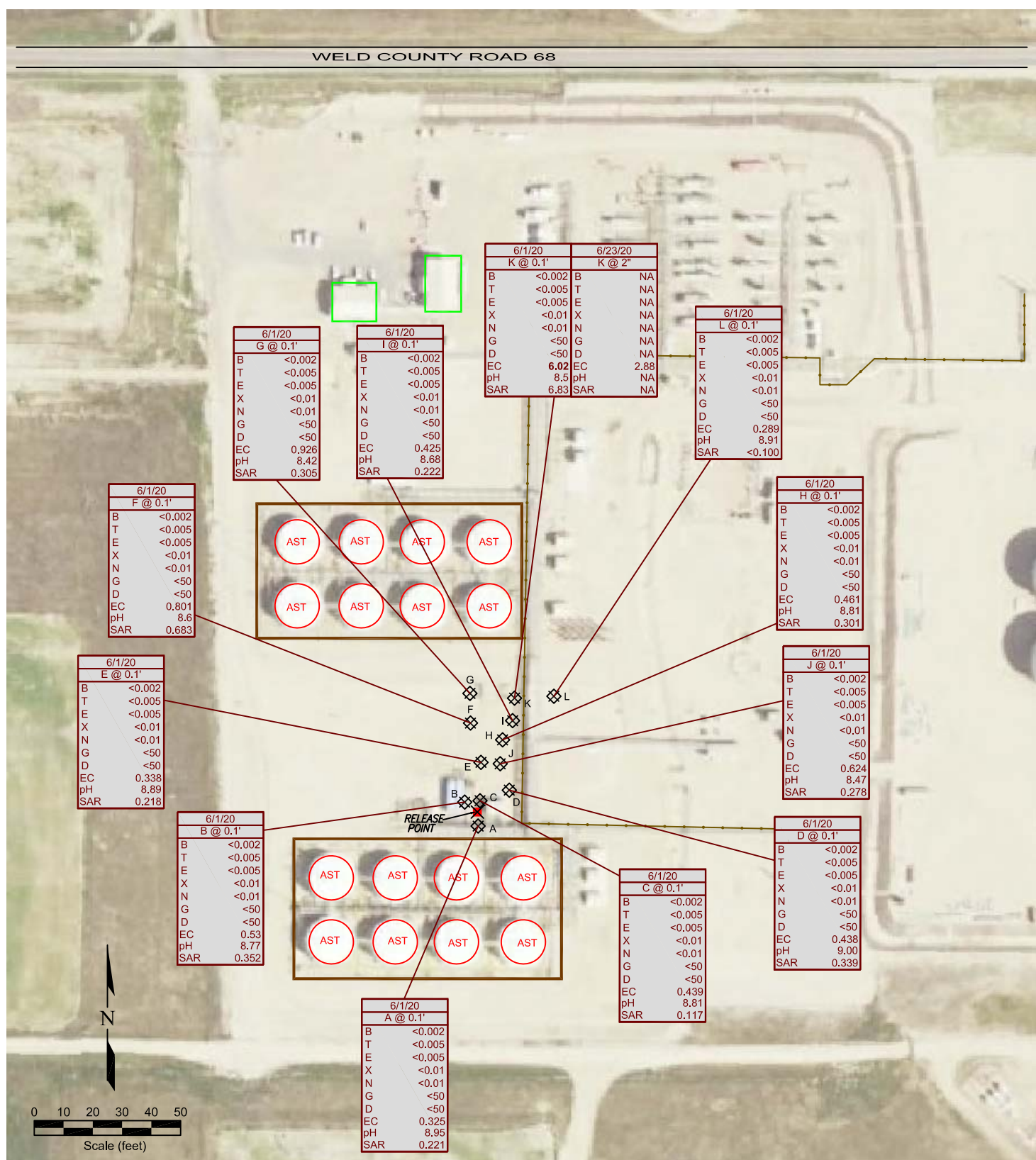


Figure 3  
**SOIL CHEMISTRY MAP**  
 June 1, 2020 and June 23, 2020  
**NOBLE ENERGY, INC.**  
**Wells Ranch Gathering Facility**  
 NWNW Sec. 22, T6N, R63W ~ 40.47659°, -104.43154°  
 Weld County, Colorado

Project No. <b>C020-040</b>	Prepared by	Drawn by <b>TA</b>
Date <b>6/29/20</b>	Reviewed by <b>PH</b>	Filename <b>20040Q</b>



6/1/20	DATE SAMPLED
A @ 0.1'	SAMPLE ID & DEPTH
B	BENZENE (mg/kg)
T	TOLUENE (mg/kg)
E	ETHYLBENZENE (mg/kg)
X	TOTAL XYLENES (mg/kg)
N	NAPHTHALENE (mg/kg)
G	TPH-GRO (mg/kg)
D	TPH-DRO (mg/kg)
EC	ETHYLBENZENE (mg/kg)
pH	TOTAL XYLENES (mg/kg)
SAR	NAPHTHALENE (mg/kg)

**APPENDIX A**

**LABORATORY DOCUMENTATION**

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 22, 2020

Paul Henchan

Fremont Environmental

PO Box 1289

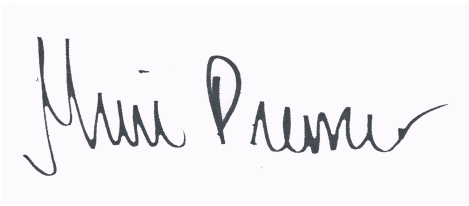
Wellington, CO 80549

RE: Noble - Wells Ranch CGF

Work Order #2006004

Enclosed are the results of analyses for samples received by Summit Scientific on 06/01/20 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premer", is shown on a light purple rectangular background.

Muri Premer For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A	2006004-01	Soil	06/01/20 00:00	06/01/20 15:30
B	2006004-02	Soil	06/01/20 00:00	06/01/20 15:30
C	2006004-03	Soil	06/01/20 00:00	06/01/20 15:30
D	2006004-04	Soil	06/01/20 00:00	06/01/20 15:30
E	2006004-05	Soil	06/01/20 00:00	06/01/20 15:30
F	2006004-06	Soil	06/01/20 00:00	06/01/20 15:30
G	2006004-07	Soil	06/01/20 00:00	06/01/20 15:30
H	2006004-08	Soil	06/01/20 00:00	06/01/20 15:30
I	2006004-09	Soil	06/01/20 00:00	06/01/20 15:30
J	2006004-10	Soil	06/01/20 00:00	06/01/20 15:30
K	2006004-11	Soil	06/01/20 00:00	06/01/20 15:30
L	2006004-12	Soil	06/01/20 00:00	06/01/20 15:30

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>

2006004.1

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

Page 1 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: HOWARD

Phone: 303-956-8714

Project Name: NOBLE - WELLS RANCH CGF

Sampler Name: HENEHAN

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	<u>A</u>	<u>6/1/20</u>		<u>1</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
2	<u>B</u>																				
3	<u>C</u>																				
4	<u>D</u>																				
5	<u>E</u>																				
6	<u>F</u>																				
7	<u>G</u>																				
8	<u>H</u>																				
9	<u>I</u>																				
10	<u>J</u>																				

Relinquished by: <u>PA/FE</u>	Date/Time: <u>6/1/20 15:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>06/01/2020 15:30</u>	<b>Turn Around Time</b> (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: <u>5.3</u> Samples Intact: <u>Yes</u> No	<b>Notes:</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		



# Summit Scientific

S<sub>2</sub>

2006004.2

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

Page 2 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to:

Phone: 303-956-8714

Project Name: NOBLE - WELLS RANCH CGF

Sampler Name: HENEHAN

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	<u>K</u>	<u>6/1/20</u>		<u>1</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
2	<u>L</u>	<u>6/1/20</u>		<u>1</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>6/1/20</u>	Received by: <u>[Signature]</u>	Date/Time: <u>06/01/2020 15:30</u>	<b>Turn Around Time</b> (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: <u>5.3</u> 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 2006004

Client: Fremont Environmental Client Project ID: Noble - Wells Ranch CGF

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
(Describe)

Temp (°C)	5.3
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On ice
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? 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, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

MP

Custodian Printed Name or Initials



Signature of Custodian

6/1/20

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**A**  
**2006004-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		86.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1380	10.8	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B	

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 - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
06/22/20 10:43

**A**  
**2006004-01 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Magnesium	352	5.38	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B
Sodium	35.5	5.38	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.221	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.9		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.95		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.325	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**B**  
**2006004-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		84.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2580	10.9	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B	
Magnesium	271	5.47	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
06/22/20 10:43

**B**  
**2006004-02 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	70.4	5.47	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.352	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.77		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.530	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**C**  
**2006004-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		84.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		121 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5850	10.7	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B	
Magnesium	309	5.36	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**C**  
**2006004-03 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	33.9	5.36	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.117	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.81		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.439	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**D**  
**2006004-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2690	10.7	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B	
Magnesium	281	5.35	"	"	"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
06/22/20 10:43

**D**  
**2006004-04 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	69.1	5.35	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.339	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.4		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	9.00		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.438	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**E**  
**2006004-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		82.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1560	10.7	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B	
Magnesium	163	5.33	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
06/22/20 10:43

**E**  
**2006004-05 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	33.9	5.33	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.218	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.89		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.338	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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PO Box 1289  
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Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**F**  
**2006004-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		84.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2130	10.6	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B	
Magnesium	249	5.32	"	"	"	"	"	"	

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Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**F**  
**2006004-06 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	125	5.32	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.683	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.1		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.60		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.801	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**G**  
**2006004-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2990	11.0	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B	
Magnesium	282	5.50	"	"	"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
06/22/20 10:43

**G**  
**2006004-07 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	65.1	5.50	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.305	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.0		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.42		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.926	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**H**  
**2006004-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		123 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		87.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1110	10.4	mg/kg dry	1	2006250	06/18/20	06/19/20	EPA 6020B	
Magnesium	208	5.18	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
06/22/20 10:43

**H**  
**2006004-08 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	41.7	5.18	mg/kg dry	1	2006250	06/18/20	06/19/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.301	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.6		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.81		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.461	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**I**  
**2006004-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1340	10.7	mg/kg dry	1	2006250	06/18/20	06/19/20	EPA 6020B	
Magnesium	152	5.34	"	"	"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**I**  
**2006004-09 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	32.2	5.34	mg/kg dry	1	2006250	06/18/20	06/19/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.222	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.6		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.68		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.425	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**J**  
**2006004-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1250	10.7	mg/kg dry	1	2006250	06/18/20	06/19/20	EPA 6020B	
Magnesium	168	5.37	"	"	"	"	"	"	

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PO Box 1289  
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Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
06/22/20 10:43

**J**  
**2006004-10 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	39.5	5.37	mg/kg dry	1	2006250	06/18/20	06/19/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.278	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.47		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.624	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**K**  
**2006004-11 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/04/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.4 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		119 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4060	11.5	mg/kg dry	1	2006250	06/18/20	06/19/20	EPA 6020B	
Magnesium	384	5.77	"	"	"	"	"	"	

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Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
06/22/20 10:43

**K**  
**2006004-11 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	1700	5.77	mg/kg dry	1	2006250	06/18/20	06/19/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.83	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.6		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.50		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.02	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**L**  
**2006004-12 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	2006045	06/03/20	06/05/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.7 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	2006044	06/03/20	06/05/20	EPA 8015M	

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	3130	10.9	mg/kg dry	1	2006250	06/18/20	06/19/20	EPA 6020B	
Magnesium	230	5.44	"	"	"	"	"	"	

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Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**L**  
**2006004-12 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	19.3	5.44	mg/kg dry	1	2006250	06/18/20	06/19/20	EPA 6020B
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**Calculated Analysis**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

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

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.91		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/01/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.289	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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PO Box 1289  
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Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

## 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 2006045 - EPA 5030 Soil MS

##### Blank (2006045-BLK1)

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0492		"	0.0400		123	23-173			
Surrogate: Toluene-d8	0.0338		"	0.0400		84.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0464		"	0.0400		116	21-167			

##### LCS (2006045-BS1)

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.119	0.0020	mg/kg	0.125		95.2	70-130			
Toluene	0.151	0.0050	"	0.125		121	70-130			
Ethylbenzene	0.150	0.0050	"	0.125		120	70-130			
m,p-Xylene	0.318	0.010	"	0.250		127	70-130			
o-Xylene	0.162	0.0050	"	0.125		130	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0339		"	0.0400		84.8	23-173			
Surrogate: Toluene-d8	0.0360		"	0.0400		90.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	21-167			

##### Matrix Spike (2006045-MS1)

Source: 2006004-01

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.129	0.0020	mg/kg	0.150	ND	85.8	70-130			
Toluene	0.164	0.0050	"	0.150	ND	110	70-130			
Ethylbenzene	0.177	0.0050	"	0.150	ND	118	70-130			
m,p-Xylene	0.362	0.010	"	0.300	0.00711	118	70-130			
o-Xylene	0.186	0.0050	"	0.150	0.00321	122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0352		"	0.0400		88.1	23-173			
Surrogate: Toluene-d8	0.0354		"	0.0400		88.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	21-167			

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**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 2006045 - EPA 5030 Soil MS**

**Matrix Spike Dup (2006045-MSD1)**

Source: 2006004-01

Prepared: 06/03/20 Analyzed: 06/04/20

Benzene	0.128	0.0020	mg/kg	0.150	ND	85.2	70-130	0.678	30	
Toluene	0.164	0.0050	"	0.150	ND	109	70-130	0.530	30	
Ethylbenzene	0.170	0.0050	"	0.150	ND	113	70-130	3.75	30	
m,p-Xylene	0.352	0.010	"	0.300	0.00711	115	70-130	2.63	30	
o-Xylene	0.180	0.0050	"	0.150	0.00321	118	70-130	3.34	30	
Surrogate: 1,2-Dichloroethane-d4	0.0353		"	0.0400		88.4	23-173			
Surrogate: Toluene-d8	0.0365		"	0.0400		91.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.6	21-167			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**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 2006044 - EPA 3550A**

**Blank (2006044-BLK1)**

Prepared: 06/03/20 Analyzed: 06/05/20

C10-C28 (DRO) ND 50 mg/kg

**LCS (2006044-BS1)**

Prepared: 06/03/20 Analyzed: 06/05/20

C10-C28 (DRO) 577 50 mg/kg 500 115 70-130

**Matrix Spike (2006044-MS1)**

**Source: 2006004-01**

Prepared: 06/03/20 Analyzed: 06/05/20

C10-C28 (DRO) 514 50 mg/kg 500 38.2 95.1 70-130

**Matrix Spike Dup (2006044-MSD1)**

**Source: 2006004-01**

Prepared: 06/03/20 Analyzed: 06/05/20

C10-C28 (DRO) 615 50 mg/kg 500 38.2 115 70-130 17.9 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 - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

## Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

### Summit Scientific

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

#### Batch 2006250 - General Preparation

##### Blank (2006250-BLK1)

Prepared & Analyzed: 06/18/20

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	5.00	"

##### LCS (2006250-BS1)

Prepared & Analyzed: 06/18/20

Calcium	489	10.0	mg/kg wet	500	97.8	70-130
Magnesium	567	5.00	"	500	113	70-130
Sodium	505	5.00	"	500	101	70-130

##### Duplicate (2006250-DUP1)

Source: 2006004-01

Prepared & Analyzed: 06/18/20

Calcium	1440	10.8	mg/kg dry	1380	3.97	20
Magnesium	359	5.38	"	352	2.01	20
Sodium	33.3	5.38	"	35.5	6.50	20

##### Matrix Spike (2006250-MS1)

Source: 2006004-01

Prepared & Analyzed: 06/18/20

Calcium	1830	10.8	mg/kg dry	538	1380	83.9	70-130
Magnesium	817	5.38	"	538	352	86.5	70-130
Sodium	574	5.38	"	538	35.5	100	70-130

##### Matrix Spike Dup (2006250-MSD1)

Source: 2006004-01

Prepared & Analyzed: 06/18/20

Calcium	1890	10.8	mg/kg dry	538	1380	95.4	70-130	3.32	25
Magnesium	850	5.38	"	538	352	92.6	70-130	3.96	25
Sodium	594	5.38	"	538	35.5	104	70-130	3.41	25

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

**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 2006230 - General Preparation**

**Duplicate (2006230-DUP1)**

Source: 2006004-01

Prepared & Analyzed: 06/17/20

% Solids	93.2	%		92.9		0.342	20
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**Batch 2006231 - General Preparation**

**LCS (2006231-BS1)**

Prepared & Analyzed: 06/17/20

pH	9.22	pH Units		9.18	100	95-105
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**Duplicate (2006231-DUP1)**

Source: 2006146-01

Prepared & Analyzed: 06/17/20

pH	8.64	pH Units		8.60		0.464	20
----	------	----------	--	------	--	-------	----

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

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

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

**Batch 2006232 - General Preparation**

**Blank (2006232-BLK1)**

Prepared & Analyzed: 06/17/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (2006232-BS1)**

Prepared & Analyzed: 06/17/20

Specific Conductance (EC) 0.754 0.0100 mmhos/cm 0.750 100 90-110

**Duplicate (2006232-DUP1)**

**Source: 2006146-01**

Prepared & Analyzed: 06/17/20

Specific Conductance (EC) 0.426 0.0100 mmhos/cm 0.430 1.10 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/22/20 10:43

### Notes and Definitions

I-02      This sample was analyzed outside of the recommended holding time.

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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 26, 2020

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Wells Ranch CGF

Work Order #2006276

Enclosed are the results of analyses for samples received by Summit Scientific on 06/23/20 23:33. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Paul Shrewsbury

President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/26/20 08:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
K - 2FT	2006276-01	Soil	06/23/20 00:00	06/23/20 23:33

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>

2006276

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

Page 1 of 1

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 - WELLS RANCH CGF

Sampler Name: HENEHAN

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	<u>K - 2 FT</u>	<u>6/23/20</u>		<u>1</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>PA/KE</u>	Date/Time: <u>6/23/20 15:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>06-23-20 15:00</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/>	Notes:  <u>ON ICE</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>9.8</u> Samples Intact: Yes No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

# Sample Receipt Checklist

S2 Work Order 2006276

Client: Fremont Environmental Client Project ID: Noble- Wells Ranch CGF

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
(Describe)

Temp (°C)	9.8
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)?</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On Ice
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)?</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	48 TAT
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> <sup>(1)?</sup> Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)?</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

MP

Custodian Printed Name or Initials



Signature of Custodian

6/23/20

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
06/26/20 08:32

**K - 2FT**  
**2006276-01 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1**

Date Sampled: **06/23/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>2.88</b>	0.0100	mmhos/cm	1	2006350	06/25/20	06/25/20	EPA 120.1	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/26/20 08:32

### Specific Conductance by EPA Method 120.1 - Quality Control

#### Summit Scientific

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

#### Batch 2006350 - General Preparation

##### Blank (2006350-BLK1)

Prepared & Analyzed: 06/25/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

##### LCS (2006350-BS1)

Prepared & Analyzed: 06/25/20

Specific Conductance (EC) 0.750 0.0100 mmhos/cm 0.750 100 90-110

##### Duplicate (2006350-DUP1)

Source: 2006296-01

Prepared & Analyzed: 06/25/20

Specific Conductance (EC) 0.466 0.0100 mmhos/cm 0.466 0.0322 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch CGF

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/26/20 08:32

### Notes and Definitions

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