

FREMONT ENVIRONMENTAL INC.

October 14, 2022

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Groundwater Data Submittal**
UPRC 27-9F Tank Battery
API # 05-123-15377
NESE Sec 27, T4N, R66W
Weld County, Colorado
Fremont Project No. C022-029
Location #327969, Remediation # 18876

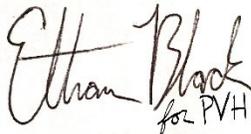
Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Groundwater Monitoring Report for the UPRC 27-9F tank battery site in Weld County, Colorado. The enclosed report describes quarterly monitoring and sampling efforts to assess water 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.

A handwritten signature in black ink that reads "Ethan Black for PVH". The signature is written in a cursive style.

Paul V. Henehan, P.E.
Senior Consultant

Enclosure

TABLE 2
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC 27-9F, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPH-THALENE (µg/L)	1,2,4 TMB (µg/L)	1,3,5 TMB (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	03/30/22	17.0	<1.0	1.44	11.0	<2.0	<2.0	20.7	99.47	NA	NA	NA
	07/28/22	46	<1.0	34	38	11	28	12		6.91	92.56	NP
MW-1R	03/03/2023	<1.0	<1.0	17	59	5.9	19	13	100.01	6.54	93.47	NP
MW-2R	03/03/2023	1.8	<1.0	7.4	14	4.2	42	9.5	100	6.29	93.71	NP
MW-3	07/28/22	56	<1.0	150	11000	27	990	700	99.81	7.20	92.61	NP
MW-3R	03/03/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.49	6.98	93.51	NP
MW-5	07/28/22	<1.0	<1.0	<1.0	20	<1.0	2	5.2	99.98	7.60	92.38	NP
MW-5R	03/03/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.28	5.56	94.72	NP
MW-6	07/28/22	2.1	<1.0	<1.0	69	1.5	25	34	100.00	7.54	92.46	NP
MW-6R	03/03/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.62	6.12	93.50	NP
MW-7	07/28/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.72	7.91	92.81	NP
	03/03/23	DES	DES	DES	DES	DES	DES	DES		DES	DES	DES
MW-301015	07/28/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	95.71	3.09	92.62	NP
	03/03/23	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS
Table 915-1 Limits		5	560	700	1,400	140	67	67				

Bold face values exceed the COGCC limits

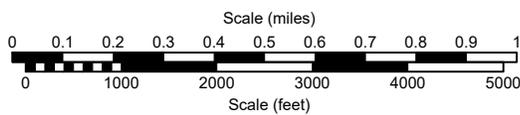
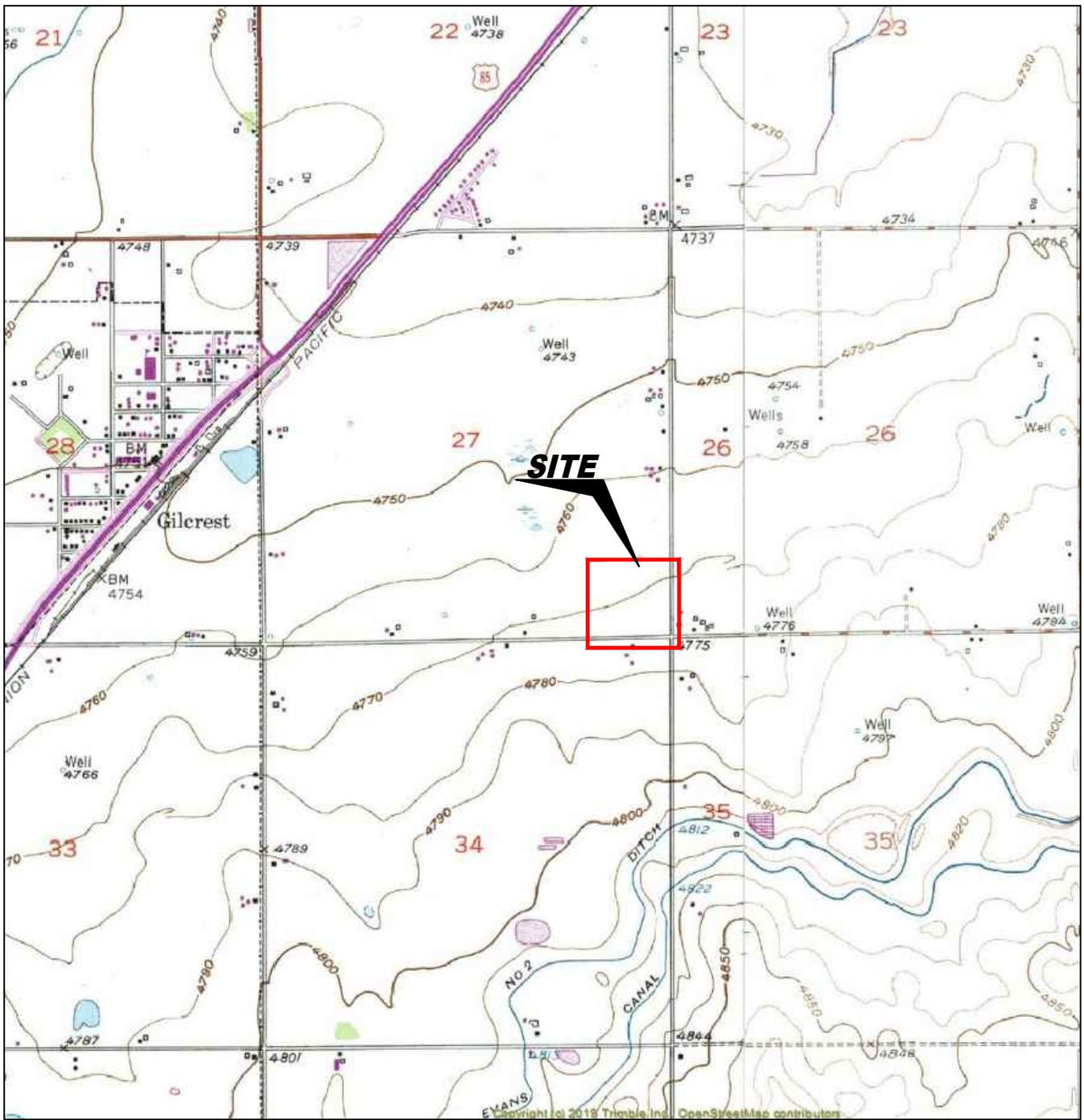
TABLE 3
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC 27-9F, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025

SAMPLE LOCATION	DATE	TDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)
MW-1	07/28/22	1050	176	193
MW-1R	03/03/2023	1030	235	97.2
MW-2R	03/03/2023	917	138	86.4
MW-3	07/28/22	930	162	64.2
MW-3R	03/03/2023	964	167	79.6
MW-5	07/28/22	1370	204	59.2
MW-5R	03/03/2023	1050	180	101
MW-6	07/28/22	1040	215	203
MW-6R	03/03/2023	874	160	70.0
MW-7	07/28/22	945	212	196
	03/03/23	DES	DES	DES
MW-301015	07/28/22	927	194	219
	03/03/23	NS	NS	NS
Table 915-1 Limits		<1.25 x local background	250	250

Bold face values exceed the COGCC limits

NA - Not Analyzed

NAP - Not Applicable



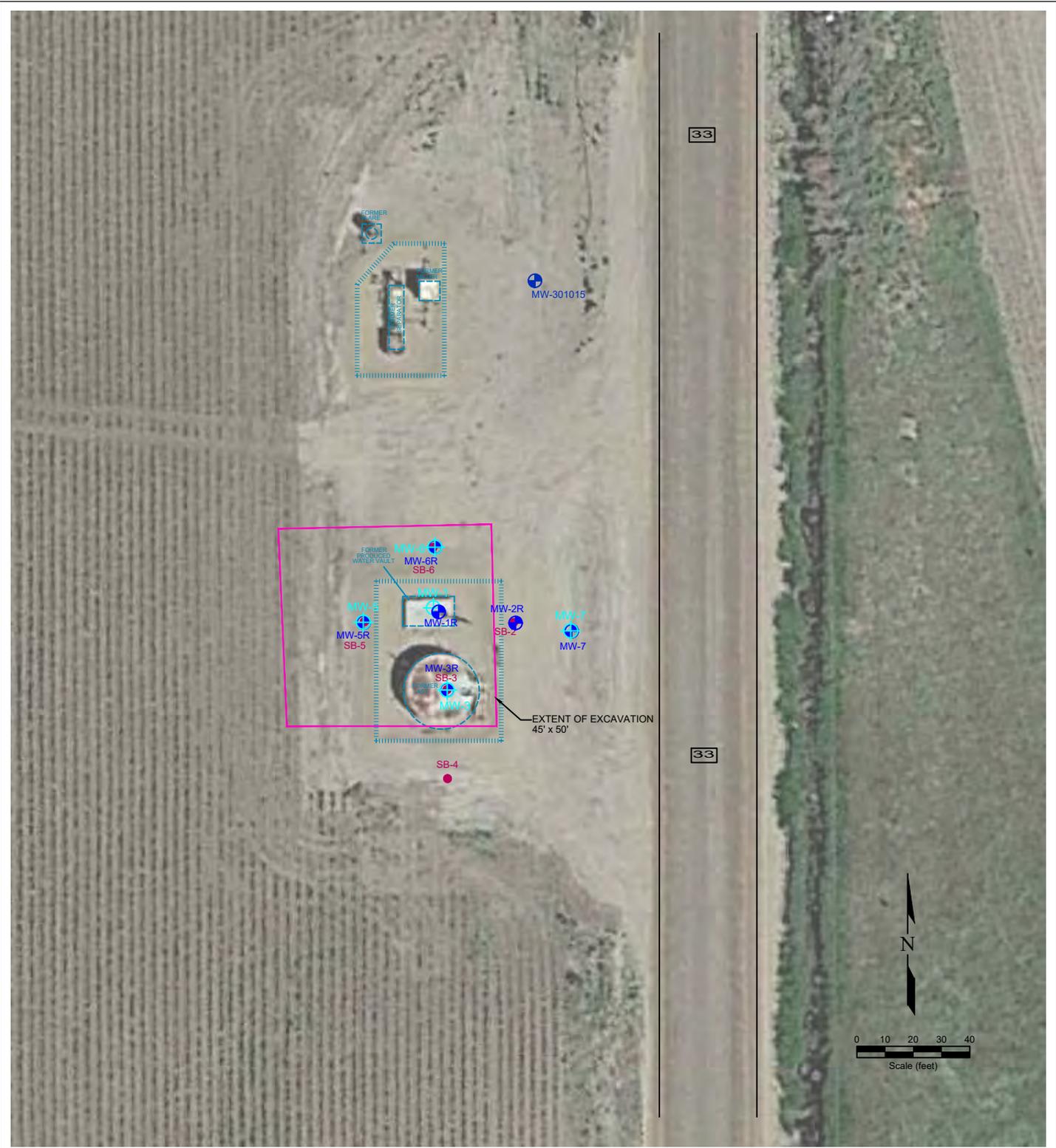
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ UPRC #27 - 9F
 NESE Sec. 27, T4N, R66W, 6th PM
 Weld County, Colorado
 40.278319°, -104.754134°

Project # C022-025	API # 05-123-15377	Facility # 481568
Date 4/11/23	Remediation # 18876	Filename 22025T





LEGEND

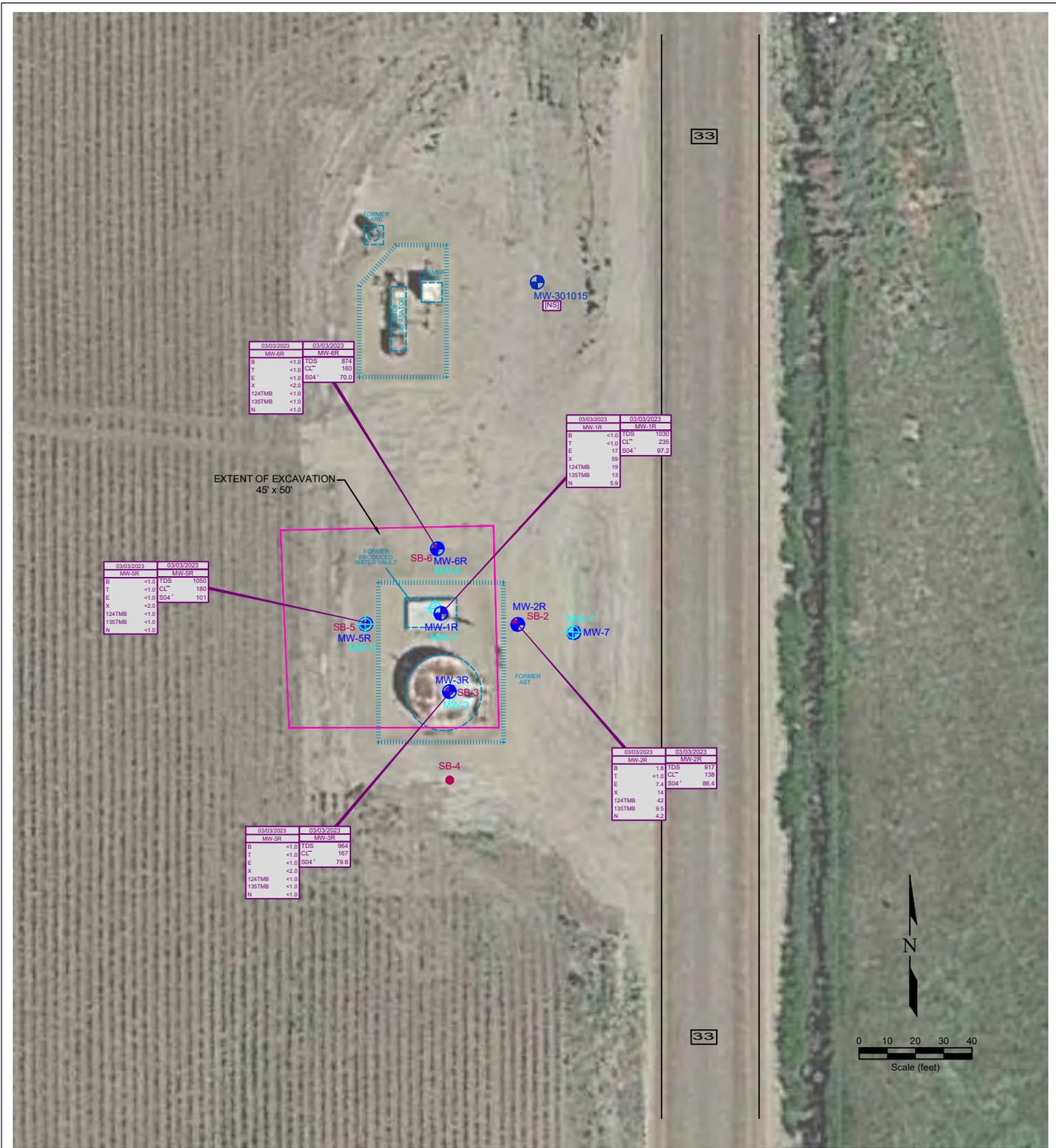
- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ◻ FORMER FACILITY
- ▭ FORMER FACILITY
- ▭ EXTENT OF EXCAVATION
- ⊕ MONITORING WELL
- ⊕ PRE-EXISTING WELLS
- ⊕ MONITORING WELL
- ⊕ DESTROYED MONITORING WELL

**Figure 2
SITE MAP**

Noble Energy, Inc. ~ UPRC #27 - 9F
 NESE Sec. 27, T4N, R66W, 6th PM
 Weld County, Colorado
 40.278319°, -104.754134°

Project No. C022-025	API # 05-123-15377	Facility # 327969
Date 4/11/23	Remediation # 18876	Filename 22025T





LEGEND

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ⊕ PRE-EXISTING MONITORING WELL
- ⊕ DESTROYED MONITORING WELL
- ⊕ MONITORING WELL
- FORMER FACILITY
- CONTAINMENT BERM
- EXTENT OF EXCAVATION

DATE SAMPLED	SAMPLE ID	DATE SAMPLED	SAMPLE ID
03/03/2023	MW-1R	03/03/2023	MW-1R
B	<1.0	TDS	1030
T	<1.0	CL ⁻	235
E	<1.0	S04 ⁻	97.2
X	59		
124TMB	5.8		
135TMB	19		
N	<1.0		

DATE SAMPLED	SAMPLE ID	DATE SAMPLED	SAMPLE ID
03/03/2023	MW-1R	03/03/2023	MW-1R
B	<1.0	TDS	964
T	<1.0	CL ⁻	167
E	<1.0	S04 ⁻	79.6
X	<2.0		
124TMB	<1.0		
135TMB	<1.0		
N	<1.0		

INSI NOT SAMPLED

Figure 4

GROUNDWATER CHEMISTRY MAP
March 3, 2023
Noble Energy, Inc. ~ UPRC #27 - 9F
NESE Sec. 27, T4N, R66W, 6th PM
Weld County, Colorado
40.278319°, -104.754134°

Project No. C022-025	API # 05-123-15377	Facility # 327969
Date 4/11/23	Remediation # 18876	Filename 22025T



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

March 20, 2023

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - UPRC Federal 27-9F

Work Order # 2303232

Enclosed are the results of analyses for samples received by Summit Scientific on 03/09/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
03/20/23 19:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1R	2303232-01	Water	03/03/23 00:00	03/09/23 16:30
MW-2R	2303232-02	Water	03/03/23 00:00	03/09/23 16:30
MW-3R	2303232-03	Water	03/03/23 00:00	03/09/23 16:30
MW-5R	2303232-04	Water	03/03/23 00:00	03/09/23 16:30
MW-6R	2303232-05	Water	03/03/23 00:00	03/09/23 16:30
BKG N 6ft	2303232-06	Soil	02/27/23 00:00	03/09/23 16:30
BKG S 6ft	2303232-07	Soil	02/27/23 00:00	03/09/23 16:30

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

S₂

2303232

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

Page | of |

Client: Fremont Environmental Project Manager: Paul Henehan
 Address: E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com
 City/State/Zip: Bill to: Dan
 Phone: Project Name: Noble - UPRC Federal 27-9F
 Sampler Name: EB Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron	Metals (915)		TDS, Chloride, Sulfate	HOLD
1	MW-1R	3/3/23		4					X											
2	MW-2R			1																
3	MW-3R			1																
4	MW-5R			1																
5	MW-6R			1																
6	BKG N 6FT	2/27/23		2					X						X	X				
7	BKG S 6FT			2					X						X	X				
8																				
9																				
10																				

Relinquished by: <i>Uth...</i>	Date/Time: 3/9/23 1630	Received by: S ₂	Date/Time: 3/1/23 1630	Turn Around Time (Check) Same Day — 72 hours 24 hours — Standard I 48 hours — Sample Integrity: Temperature Upon Receipt: 8.0 Samples Intact: Yes No	Notes:
Relinquished by: S ₂	Date/Time: 3/9/23 1630	Received by: <i>[Signature]</i>	Date/Time: 3/9/23 1630		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2303232

Client: Fremont

Client Project ID: Noble-UPRC Federal 27-9F

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ 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"/>	<i>on ice</i>
If custody seals are present, are they intact? ⁽¹⁾	<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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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"/>	
<u>Additional Comments (if any):</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

[Signature]
Custodian Printed Name

3/9/23 1630
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
03/20/23 19:26

MW-1R
2303232-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0		ug/l	1	BGC0360	03/13/23	03/13/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	17	1.0		"	"	"	"	"	"	
Xylenes (total)	59	2.0		"	"	"	"	"	"	
Naphthalene	5.9	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	19	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	13	1.0		"	"	"	"	"	"	

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		127 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	235	12.0		mg/L	200	BGC0315	03/11/23	03/12/23	EPA 300.0	
Sulfate	97.2	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	1030	10.0		mg/L	1	BGC0366	03/10/23	03/13/23	SM2540C	

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 - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

MW-2R
2303232-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	1.8	1.0		ug/l	1	BGC0360	03/13/23	03/13/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	7.4	1.0		"	"	"	"	"	"	
Xylenes (total)	14	2.0		"	"	"	"	"	"	
Naphthalene	4.2	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	42	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	9.5	1.0		"	"	"	"	"	"	

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		125 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	138	12.0		mg/L	200	BGC0315	03/11/23	03/12/23	EPA 300.0	
Sulfate	86.4	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	917	10.0		mg/L	1	BGC0366	03/10/23	03/13/23	SM2540C	

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

MW-3R
2303232-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0		ug/l	1	BGC0360	03/13/23	03/13/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		118 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	167	12.0		mg/L	200	BGC0315	03/11/23	03/12/23	EPA 300.0	
Sulfate	79.6	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	964	10.0		mg/L	1	BGC0366	03/10/23	03/13/23	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
03/20/23 19:26

MW-5R
2303232-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0		ug/l	1	BGC0360	03/13/23	03/14/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		116 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	180	12.0		mg/L	200	BGC0315	03/11/23	03/12/23	EPA 300.0	
Sulfate	101	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	1050	10.0		mg/L	1	BGC0366	03/10/23	03/13/23	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
03/20/23 19:26

MW-6R
2303232-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0		ug/l	1	BGC0360	03/13/23	03/14/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		122 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	160	12.0		mg/L	200	BGC0315	03/11/23	03/12/23	EPA 300.0	
Sulfate	70.0	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/03/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	874	10.0		mg/L	1	BGC0366	03/10/23	03/13/23	SM2540C	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
03/20/23 19:26

BKG N 6ft
2303232-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.191	0.0100		mg/L	1	BGC0346	03/13/23	03/14/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	2.33	0.241	0.203	mg/kg dry	1	BGC0357	03/13/23	03/15/23	EPA 6020B	
Barium	59.9	0.482	0.381	"	"	"	"	"	"	
Cadmium	0.159	0.241	0.00868	"	"	"	"	"	"	
Copper	7.41	0.482	0.0252	"	"	"	"	"	"	
Lead	6.79	0.241	0.0662	"	"	"	"	"	"	
Nickel	6.64	0.482	0.0735	"	"	"	"	"	"	
Selenium	0.491	0.260	0.175	"	"	"	"	"	"	
Silver	0.0346	0.0241	0.00322	"	"	"	"	"	"	
Zinc	27.9	0.482	0.321	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGC0414	03/14/23	03/14/23	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	26.9	0.0603		mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	12.0	0.0603		"	"	"	"	"	"	
Sodium	70.4	0.0603		"	"	"	"	"	"	

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Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

BKG N 6ft
2303232-06 (Soil)

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Calculated Analysis

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.84	0.00100		units	1	BGC0575	03/18/23	03/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0			%	1	BGC0309	03/10/23	03/13/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.518	0.0100		mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00			pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

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Project: Noble - UPRC Federal 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
03/20/23 19:26

BKG S 6ft
2303232-07 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.220	0.0100		mg/L	1	BGC0346	03/13/23	03/14/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	2.52	0.231	0.195	mg/kg dry	1	BGC0357	03/13/23	03/15/23	EPA 6020B	
Barium	42.4	0.463	0.366	"	"	"	"	"	"	
Cadmium	0.0616	0.231	0.00833	"	"	"	"	"	"	
Copper	7.29	0.463	0.0242	"	"	"	"	"	"	
Lead	8.17	0.231	0.0636	"	"	"	"	"	"	
Nickel	7.76	0.463	0.0706	"	"	"	"	"	"	
Selenium	0.600	0.260	0.175	"	"	"	"	"	"	
Silver	0.0189	0.0231	0.00309	"	"	"	"	"	"	
Zinc	29.6	0.463	0.308	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGC0414	03/14/23	03/14/23	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	25.9	0.0578		mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	8.14	0.0578		"	"	"	"	"	"	
Sodium	42.2	0.0578		"	"	"	"	"	"	

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Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

BKG S 6ft
2303232-07 (Soil)

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Calculated Analysis

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.85	0.00100		units	1	BGC0575	03/18/23	03/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.4			%	1	BGC0309	03/10/23	03/13/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.410	0.0100		mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **02/27/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13			pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

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 PO Box 1289
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Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGC0360 - EPA 5030 Water MS

Blank (BGC0360-BLK1)

Prepared & Analyzed: 03/13/23

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	15.9		"	13.3		119		23-173			
<i>Surrogate: Toluene-d8</i>	14.0		"	13.3		105		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.3		"	13.3		107		21-167			

LCS (BGC0360-BS1)

Prepared & Analyzed: 03/13/23

Benzene	43.6	1.0	ug/l	33.3		131		51-132			
Toluene	46.1	1.0	"	33.3		138		51-138			
Ethylbenzene	41.8	1.0	"	33.3		125		58-146			
m,p-Xylene	83.5	2.0	"	66.7		125		57-144			
o-Xylene	38.4	1.0	"	33.3		115		53-146			
Naphthalene	32.3	1.0	"	33.3		96.9		70-130			
1,2,4-Trimethylbenzene	40.1	1.0	"	33.3		120		70-130			
1,3,5-Trimethylbenzene	40.4	1.0	"	33.3		121		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	16.5		"	13.3		124		23-173			
<i>Surrogate: Toluene-d8</i>	14.3		"	13.3		107		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.6		"	13.3		102		21-167			

Matrix Spike (BGC0360-MS1)

Source: 2303232-01

Prepared & Analyzed: 03/13/23

Benzene	44.9	1.0	ug/l	33.3	ND	135		34-141			
Toluene	45.8	1.0	"	33.3	ND	137		27-151			
Ethylbenzene	58.8	1.0	"	33.3	16.9	126		29-160			
m,p-Xylene	140	2.0	"	66.7	53.7	130		20-166			
o-Xylene	45.6	1.0	"	33.3	5.73	119		33-159			
Naphthalene	37.8	1.0	"	33.3	5.92	95.6		70-130			
1,2,4-Trimethylbenzene	57.0	1.0	"	33.3	18.9	114		70-130			
1,3,5-Trimethylbenzene	51.6	1.0	"	33.3	13.4	114		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	16.9		"	13.3		127		23-173			
<i>Surrogate: Toluene-d8</i>	14.0		"	13.3		105		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.3		"	13.3		107		21-167			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGC0360 - EPA 5030 Water MS

Matrix Spike Dup (BGC0360-MSD1)	Source: 2303232-01			Prepared & Analyzed: 03/13/23							
Benzene	44.6	1.0	ug/l	33.3	ND	134	34-141	0.693	30		
Toluene	45.4	1.0	"	33.3	ND	136	27-151	0.878	30		
Ethylbenzene	55.5	1.0	"	33.3	16.9	116	29-160	5.71	30		
m,p-Xylene	130	2.0	"	66.7	53.7	114	20-166	8.01	30		
o-Xylene	44.3	1.0	"	33.3	5.73	116	33-159	2.69	30		
Naphthalene	39.6	1.0	"	33.3	5.92	101	70-130	4.65	30		
1,2,4-Trimethylbenzene	53.9	1.0	"	33.3	18.9	105	70-130	5.58	30		
1,3,5-Trimethylbenzene	47.8	1.0	"	33.3	13.4	103	70-130	7.51	30		
Surrogate: 1,2-Dichloroethane-d4	17.4		"	13.3		130	23-173				
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170				
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3		107	21-167				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BGC0346 - EPA 3050B

Blank (BGC0346-BLK1)

Prepared: 03/13/23 Analyzed: 03/14/23

Boron ND 0.0100 mg/L

LCS (BGC0346-BS1)

Prepared: 03/13/23 Analyzed: 03/14/23

Boron 4.75 0.0100 mg/L 5.00 95.0 80-120

Duplicate (BGC0346-DUP1)

Source: 2303225-21

Prepared: 03/13/23 Analyzed: 03/14/23

Boron 0.393 0.0100 mg/L 0.409 3.93 20

Matrix Spike (BGC0346-MS1)

Source: 2303225-21

Prepared: 03/13/23 Analyzed: 03/14/23

Boron 5.13 0.0100 mg/L 5.00 0.409 94.3 75-125

Matrix Spike Dup (BGC0346-MSD1)

Source: 2303225-21

Prepared: 03/13/23 Analyzed: 03/14/23

Boron 5.18 0.0100 mg/L 5.00 0.409 95.4 75-125 1.01 25

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Fremont Environmental
 PO Box 1289
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Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGC0357 - EPA 3050B

Blank (BGC0357-BLK1)

Prepared: 03/13/23 Analyzed: 03/14/23

Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Selenium	ND	0.260	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								

LCS (BGC0357-BS1)

Prepared: 03/13/23 Analyzed: 03/14/23

Arsenic	41.0	0.200	mg/kg wet	40.0	103	80-120
Barium	39.9	0.400	"	40.0	99.8	80-120
Cadmium	1.97	0.200	"	2.00	98.5	80-120
Copper	37.8	0.400	"	40.0	94.6	80-120
Lead	18.5	0.200	"	20.0	92.7	80-120
Nickel	37.1	0.400	"	40.0	92.8	80-120
Selenium	4.07	0.260	"	4.00	102	80-120
Silver	1.81	0.0200	"	2.00	90.5	80-120
Zinc	40.1	0.400	"	40.0	100	80-120

Duplicate (BGC0357-DUP1)

Source: 2303085-02

Prepared: 03/13/23 Analyzed: 03/14/23

Arsenic	5.64	0.235	mg/kg dry	4.97	12.7	20
Barium	148	0.470	"	149	0.444	20
Cadmium	0.237	0.235	"	0.223	6.03	20
Copper	17.2	0.470	"	14.9	14.2	20
Lead	11.6	0.235	"	11.0	5.65	20
Nickel	14.3	0.470	"	13.1	8.48	20
Selenium	0.943	0.260	"	0.724	26.3	20
Silver	0.0944	0.0235	"	0.0967	2.33	20
Zinc	54.5	0.470	"	48.9	10.8	20

QR-04

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 PO Box 1289
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Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGC0357 - EPA 3050B

Matrix Spike (BGC0357-MS1)

Source: 2303085-02

Prepared: 03/13/23 Analyzed: 03/14/23

Arsenic	53.8	0.235	mg/kg dry	47.0	4.97	104	75-125				
Barium	228	0.470	"	47.0	149	169	75-125				QM-02
Cadmium	2.65	0.235	"	2.35	0.223	103	75-125				
Copper	61.0	0.470	"	47.0	14.9	98.2	75-125				
Lead	31.9	0.235	"	23.5	11.0	89.2	75-125				
Nickel	60.5	0.470	"	47.0	13.1	101	75-125				
Selenium	5.38	0.260	"	4.70	0.724	99.1	75-125				
Silver	1.76	0.0235	"	2.35	0.0967	70.7	75-125				QM-07
Zinc	105	0.470	"	47.0	48.9	120	75-125				

Matrix Spike Dup (BGC0357-MSD1)

Source: 2303085-02

Prepared: 03/13/23 Analyzed: 03/14/23

Arsenic	53.8	0.235	mg/kg dry	47.0	4.97	104	75-125	0.0303	25		
Barium	230	0.470	"	47.0	149	173	75-125	0.714	25		QM-02
Cadmium	2.62	0.235	"	2.35	0.223	102	75-125	1.10	25		
Copper	60.5	0.470	"	47.0	14.9	97.2	75-125	0.793	25		
Lead	32.4	0.235	"	23.5	11.0	91.3	75-125	1.54	25		
Nickel	60.4	0.470	"	47.0	13.1	101	75-125	0.0744	25		
Selenium	5.19	0.260	"	4.70	0.724	95.0	75-125	3.68	25		
Silver	1.74	0.0235	"	2.35	0.0967	69.8	75-125	1.18	25		QM-07
Zinc	105	0.470	"	47.0	48.9	119	75-125	0.241	25		

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Fremont Environmental
 PO Box 1289
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Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGC0414 - 3060A Mod

Blank (BGC0414-BLK1)

Prepared & Analyzed: 03/14/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGC0414-BS1)

Prepared & Analyzed: 03/14/23

Chromium, Hexavalent 22.6 0.30 mg/kg wet 25.0 90.6 80-120

Duplicate (BGC0414-DUP1)

Source: 2303232-06

Prepared & Analyzed: 03/14/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGC0414-MS1)

Source: 2303232-06

Prepared & Analyzed: 03/14/23

Chromium, Hexavalent 31.3 0.30 mg/kg dry 30.1 ND 104 75-125

Matrix Spike Dup (BGC0414-MSD1)

Source: 2303232-06

Prepared & Analyzed: 03/14/23

Chromium, Hexavalent 32.9 0.30 mg/kg dry 30.1 ND 109 75-125 5.07 20

Summit Scientific

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 Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGC0438 - General Preparation

Blank (BGC0438-BLK1)

Prepared: 03/15/23 Analyzed: 03/18/23

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BGC0438-BS1)

Prepared: 03/15/23 Analyzed: 03/18/23

Calcium	5.74	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.49	0.0500	"	5.00		110	70-130			
Sodium	5.02	0.0500	"	5.00		100	70-130			

Summit Scientific

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

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Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BGC0315 - General Preparation

Blank (BGC0315-BLK1)

Prepared & Analyzed: 03/11/23

Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							

LCS (BGC0315-BS1)

Prepared & Analyzed: 03/11/23

Chloride	2.84	0.0600	mg/L	3.00	94.7	90-110			
Sulfate	14.6	0.300	"	15.0	97.5	90-110			

Duplicate (BGC0315-DUP1)

Source: 2303158-01

Prepared & Analyzed: 03/11/23

Chloride	77.0	12.0	mg/L		80.0		3.82	20	
Sulfate	81.2	60.0	"		74.0		9.28	20	

Matrix Spike (BGC0315-MS1)

Source: 2303158-01

Prepared & Analyzed: 03/11/23

Chloride	970	12.0	mg/L	600	80.0	148	80-120		QM-07
Sulfate	3940	60.0	"	3000	74.0	129	80-120		QM-07

Summit Scientific

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

Summit Scientific

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

Batch BGC0309 - General Preparation

Duplicate (BGC0309-DUP1)

Source: 2303226-05

Prepared: 03/10/23 Analyzed: 03/13/23

% Solids	89.5		%		91.3			2.03		20	
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Summit Scientific

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 Project Manager: Paul Henehan

Reported:
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Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BGC0366 - General Preparation

Blank (BGC0366-BLK1)

Prepared: 03/10/23 Analyzed: 03/13/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGC0366-DUP1)

Source: 2303215-01

Prepared: 03/10/23 Analyzed: 03/13/23

Total Dissolved Solids 903 10.0 mg/L 867 4.04 20

Summit Scientific

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Project Number: [none]
 Project Manager: Paul Henehan

Reported:
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGC0494 - General Preparation

Blank (BGC0494-BLK1)

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGC0494-BS1)

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BGC0494-DUP1)

Source: 2303229-01

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) 4.42 0.0100 mmhos/cm 4.51 2.04 20

Summit Scientific

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Project: Noble - UPRC Federal 27-9F

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 03/20/23 19:26

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

Summit Scientific

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

Batch BGC0493 - General Preparation

LCS (BGC0493-BS1)

Prepared: 03/16/23 Analyzed: 03/17/23

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BGC0493-DUP1)

Source: 2303229-01

Prepared: 03/16/23 Analyzed: 03/17/23

pH	7.82	pH Units	7.89	0.891	20
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Summit Scientific

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Project Number: [none]
Project Manager: Paul Henehan

Reported:
03/20/23 19:26

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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.
- QM-02 The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- 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