

FREMONT ENVIRONMENTAL INC.

August 25, 2023

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.



Stanley Gilbert
Environmental Scientist

Enclosure

TABLE 1
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
	06/07/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		3.38	96.63	NP
MW-2R	03/03/2023	1.8	<1.0	7.4	14	4.2	42	9.5	100	6.29	93.71	NP
	06/07/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		3.16	96.84	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
	06/07/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		3.79	96.70	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
	06/07/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.24	95.04	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
	06/07/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		3.08	96.54	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 ECMC limits

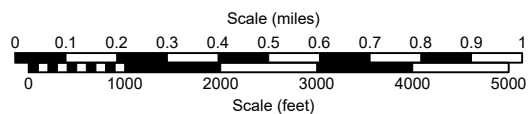
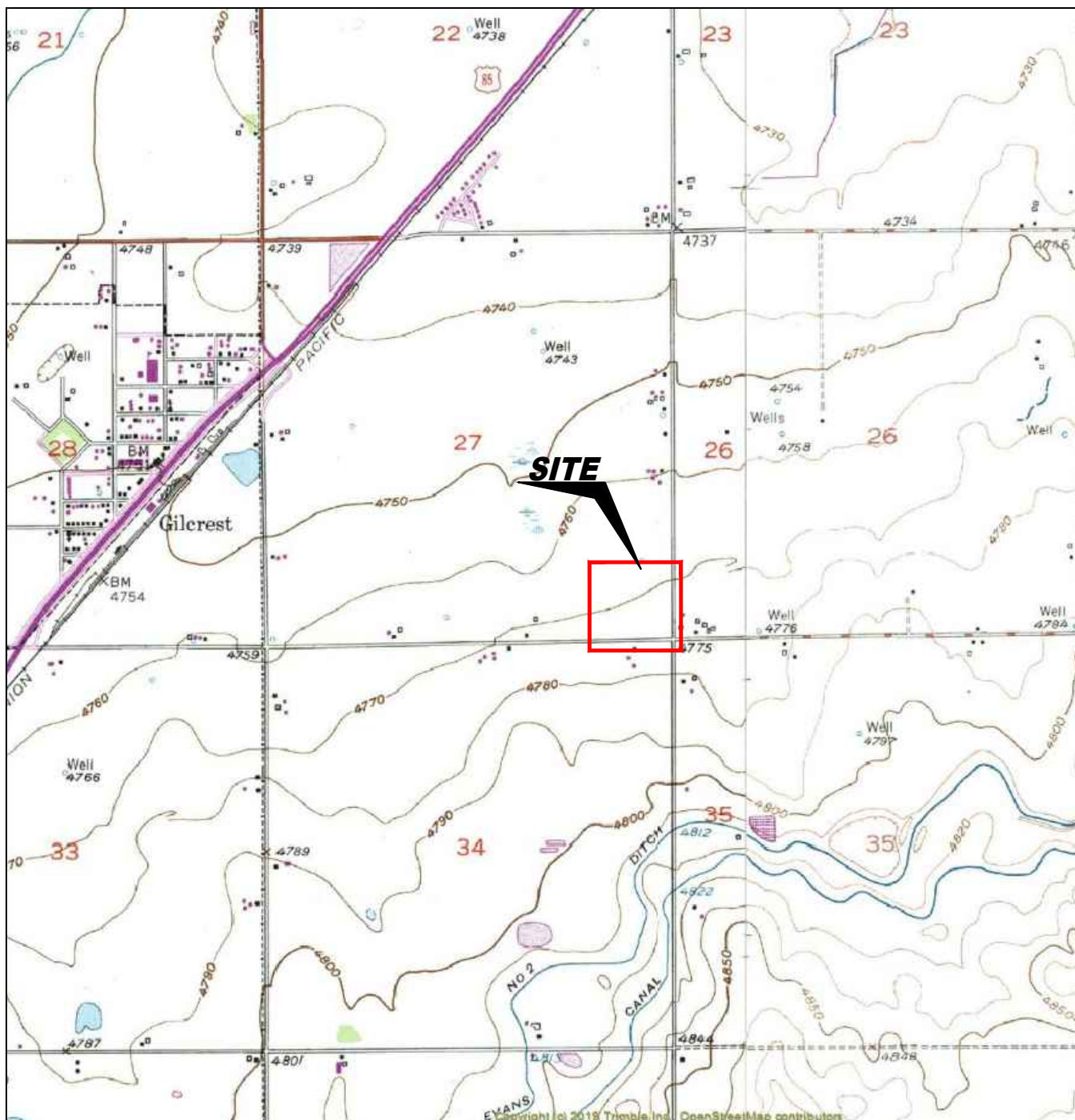
TABLE 2
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC 27-9F, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025

SAMPLE LOCATION	DATE	TDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)	BARIUM (mg/L)
MW-1	07/28/22	1050	176	193	NA
MW-1R	03/03/2023	1030	235	97.2	NA
	06/07/23	2700	542	703	0.116
MW-2R	03/03/2023	917	138	86.4	NA
	06/07/23	1120	237	270	0.0891
MW-3	07/28/22	930	162	64.2	NA
MW-3R	03/03/2023	964	167	79.6	NA
	06/07/23	2010	389	608	0.0586
MW-5	07/28/22	1370	204	59.2	NA
MW-5R	03/03/2023	1050	180	101	NA
	06/07/23	1330	302	413	0.0697
MW-6	07/28/22	1040	215	203	NA
MW-6R	03/03/2023	874	160	70.0	NA
	06/07/23	1170	281	248	0.135
MW-7	07/28/22	945	212	196	NA
	03/03/23	DES	DES	DES	NA
MW-301015	07/28/22	927	194	219	NA
	03/03/23	NS	NS	NS	NA
Table 915-1 Limits		<1.25 x local background	250	250	NA
WQCC Reg. 41 Drinking Water Standard					2.0

Bold face values exceed the ECMC 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 8/23/23	Remediation # 18876	Filename 22025T





LEGEND

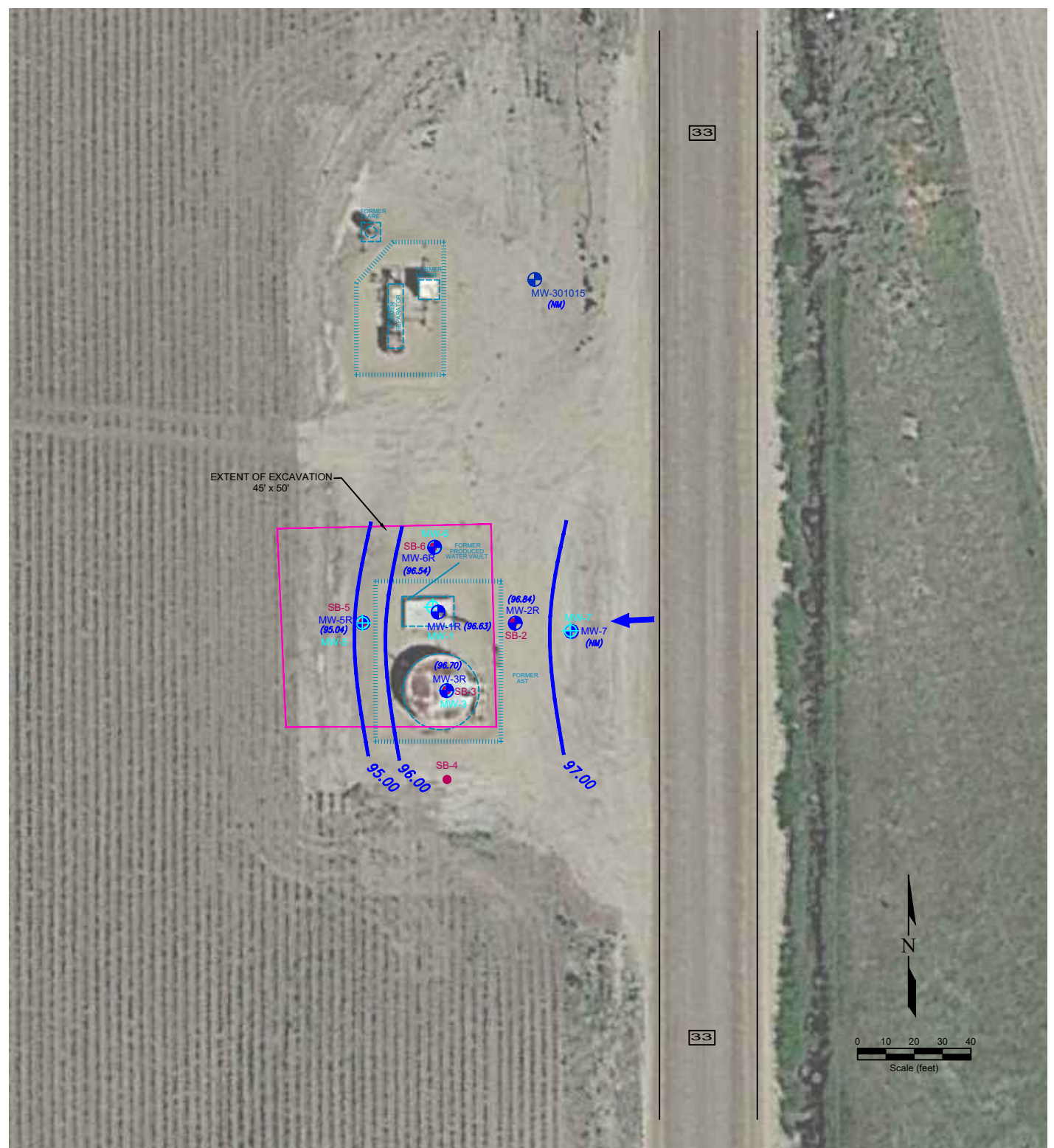
● SOIL BORING LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	CONTAINMENT BERM
● MONITORING WELL			EXTENT OF EXCAVATION
● PRE-EXISTING WELLS			
● MONITORING WELL DESTROYED			
● MONITORING WELL			

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 8/23/23	Remediation # 18876	Filename 22025T





LEGEND

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

(NM)

NOT MEASURED

(92.56)

GROUND WATER ELEVATION (ft above arbitrary datum)

92.50

WATER TABLE CONTOUR



GROUND WATER FLOW DIRECTION

Figure 3

INFERRED GROUNDWATER CONTOUR MAP

June 7, 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
8/23/23

Remediation #
18876

Filename
22025T



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 19, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - UPRC Federal 27-9F

Work Order #2306132

Enclosed are the results of analyses for samples received by Summit Scientific on 06/07/23 17:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

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:
06/19/23 12:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1R	2306132-01	Water	06/07/23 16:15	06/07/23 17:25
MW-2R	2306132-02	Water	06/07/23 16:20	06/07/23 17:25
MW-3R	2306132-03	Water	06/07/23 16:25	06/07/23 17:25
MW-5R	2306132-04	Water	06/07/23 16:30	06/07/23 17:25
MW-6R	2306132-05	Water	06/07/23 16:35	06/07/23 17:25

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.

Client: Fremont Environmental		Project Manager: Paul Henchan		Company: Noble	
Address:		E-Mail: Fremont Distribution List		Project Name/Location: UPRC Federal 27-9F	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: UPRC Federal 27-9F		PO/Billing Codes:	
Sampler Name: Stanley Gilbert		Project Number:		Contact: Dan Peterson	

					Preservative				Matrix				Analysis Requested							Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	Dissolved Ca	HOLD	
1	MW-2B	6/17/23	16:15	4	3		1		X				X					X	X		
2	MW-2B		16:20																		
3	MW-3B		16:25																		
4	MW-5B		16:30																		
5	MW-6B		16:35																		
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time: 6/17/23 17:25	Received by: Summit North	Date/Time: 6/17/23 17:25	TAT Business Days	Field DO	Notes:
Relinquished by: 52	Date/Time: 6/23 17:25	Received by:	Date/Time: 6/23 17:25	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 114	Corrected Temperature:	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2306132Client: Fremont Client Project ID: UPRC Federal 27-9FShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 114Thermometer # 1

	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"/>	artef
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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.
AS
Custodian Printed Name

6/7/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC Federal 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
06/19/23 12:25

MW-1R
2306132-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/23 16:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BGF0313	06/08/23	06/09/23	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: **06/07/23 16:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	16.6	124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.0	105 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **06/07/23 16:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	116	1.00	ug/l	1	BGF0416	06/12/23	06/13/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **06/07/23 16:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	542	12.0	mg/L	200	BGF0281	06/07/23	06/08/23	EPA 300.0	
Sulfate	703	60.0	"	"	"	"	"	"	

Total Dissolved Solids by 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 Henchan

Reported:
06/19/23 12:25

MW-1R
2306132-01 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/23 16:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2700	10.0		mg/L	1	BGF0294	06/08/23	06/08/23	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:
06/19/23 12:25

MW-2R
2306132-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/23 16:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGF0313	06/08/23	06/09/23	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: **06/07/23 16:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.5	123 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.1	106 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **06/07/23 16:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Barium	89.1	1.00	ug/l	1	BGF0416	06/12/23	06/13/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **06/07/23 16:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	237	12.0	mg/L	200	BGF0281	06/07/23	06/08/23	EPA 300.0	
Sulfate	270	60.0	"	"	"	"	"	"	

Total Dissolved Solids by 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 Henchan

Reported:
06/19/23 12:25

MW-2R
2306132-02 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/23 16:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1120	10.0		mg/L	1	BGF0294	06/08/23	06/08/23	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:
06/19/23 12:25

MW-3R
2306132-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/23 16:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGF0313	06/08/23	06/09/23	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: **06/07/23 16:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.7	125 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.8	103 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **06/07/23 16:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Barium	58.6	1.00	ug/l	1	BGF0416	06/12/23	06/13/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **06/07/23 16:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	389	12.0	mg/L	200	BGF0281	06/07/23	06/09/23	EPA 300.0	
Sulfate	608	60.0	"	"	"	"	"	"	

Total Dissolved Solids by 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 Henchan

Reported:
06/19/23 12:25

MW-3R
2306132-03 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/23 16:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2010	10.0		mg/L	1	BGF0294	06/08/23	06/08/23	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 Henchan

Reported:
06/19/23 12:25

MW-5R
2306132-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/23 16:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGF0313	06/08/23	06/09/23	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: **06/07/23 16:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.3	122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.7	103 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **06/07/23 16:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Barium	69.7	1.00	ug/l	1	BGF0416	06/12/23	06/13/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **06/07/23 16:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	302	12.0	mg/L	200	BGF0281	06/07/23	06/09/23	EPA 300.0	
Sulfate	413	60.0	"	"	"	"	"	"	

Total Dissolved Solids by 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 Henchan

Reported:
06/19/23 12:25

MW-5R
2306132-04 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1330	10.0		mg/L	1	BGF0294	06/08/23	06/08/23	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 Henchan

Reported:
06/19/23 12:25

MW-6R
2306132-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/23 16:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGF0313	06/08/23	06/09/23	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: **06/07/23 16:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.6	124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.0	105 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **06/07/23 16:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Barium	135	1.00	ug/l	1	BGF0416	06/12/23	06/13/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **06/07/23 16:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	281	12.0	mg/L	200	BGF0281	06/07/23	06/09/23	EPA 300.0	
Sulfate	248	60.0	"	"	"	"	"	"	

Total Dissolved Solids by 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 Henchan

Reported:
06/19/23 12:25

MW-6R
2306132-05 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **06/07/23 16:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1170	10.0		mg/L	1	BGF0294	06/08/23	06/08/23	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 Henchan

Reported:
06/19/23 12:25

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 BGF0313 - EPA 5030 Water MS

Blank (BGF0313-BLK1)

Prepared: 06/08/23 Analyzed: 06/09/23

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	"							
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.3		116	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.8	20-170			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		103	21-167			

LCS (BGF0313-BS1)

Prepared: 06/08/23 Analyzed: 06/09/23

Benzene	34.6	1.0	ug/l	41.7		82.9	51-132			
Toluene	32.1	1.0	"	41.7		77.0	51-138			
Ethylbenzene	42.7	1.0	"	41.7		103	58-146			
m,p-Xylene	86.0	2.0	"	83.3		103	57-144			
o-Xylene	42.5	1.0	"	41.7		102	53-146			
Naphthalene	48.7	1.0	"	41.7		117	70-130			
1,2,4-Trimethylbenzene	48.0	1.0	"	41.7		115	70-130			
1,3,5-Trimethylbenzene	48.1	1.0	"	41.7		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	16.4		"	13.3		123	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	21-167			

Matrix Spike (BGF0313-MS1)

Source: 2306132-01

Prepared: 06/08/23 Analyzed: 06/09/23

Benzene	34.5	1.0	ug/l	41.7	ND	82.8	34-141			
Toluene	31.9	1.0	"	41.7	ND	76.5	27-151			
Ethylbenzene	42.9	1.0	"	41.7	ND	103	29-160			
m,p-Xylene	86.4	2.0	"	83.3	ND	104	20-166			
o-Xylene	43.2	1.0	"	41.7	ND	104	33-159			
Naphthalene	44.2	1.0	"	41.7	ND	106	70-130			
1,2,4-Trimethylbenzene	47.8	1.0	"	41.7	ND	115	70-130			
1,3,5-Trimethylbenzene	48.0	1.0	"	41.7	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	16.5		"	13.3		124	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.0	20-170			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	21-167			

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 Henchan

Reported:
06/19/23 12:25

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 BGF0313 - EPA 5030 Water MS

Matrix Spike Dup (BGF0313-MSD1)	Source: 2306132-01			Prepared: 06/08/23 Analyzed: 06/09/23						
Benzene	33.8	1.0	ug/l	41.7	ND	81.1	34-141	2.14	30	
Toluene	30.9	1.0	"	41.7	ND	74.2	27-151	3.06	30	
Ethylbenzene	42.9	1.0	"	41.7	ND	103	29-160	0.0233	30	
m,p-Xylene	86.1	2.0	"	83.3	ND	103	20-166	0.417	30	
o-Xylene	43.5	1.0	"	41.7	ND	104	33-159	0.623	30	
Naphthalene	47.9	1.0	"	41.7	ND	115	70-130	7.95	30	
1,2,4-Trimethylbenzene	48.2	1.0	"	41.7	ND	116	70-130	0.834	30	
1,3,5-Trimethylbenzene	48.2	1.0	"	41.7	ND	116	70-130	0.561	30	
Surrogate: 1,2-Dichloroethane-d4	17.2		"	13.3		129	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	20-170			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	21-167			

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 Henchan

Reported:
06/19/23 12:25

Dissolved Metals by EPA Method 200.8 - Quality Control
Summit Scientific

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

Batch BGF0416 - EPA 200.8

Blank (BGF0416-BLK1)

Prepared: 06/12/23 Analyzed: 06/13/23

Barium ND 1.00 ug/l

LCS (BGF0416-BS1)

Prepared: 06/12/23 Analyzed: 06/13/23

Barium 519 1.00 ug/l 500 104 85-115

Duplicate (BGF0416-DUP1)

Source: 2306113-01

Prepared: 06/12/23 Analyzed: 06/13/23

Barium 24.6 1.00 ug/l 24.4 0.837 20

Matrix Spike (BGF0416-MS1)

Source: 2306113-01

Prepared: 06/12/23 Analyzed: 06/13/23

Barium 537 1.00 ug/l 500 24.4 103 70-130

Matrix Spike Dup (BGF0416-MSD1)

Source: 2306113-01

Prepared: 06/12/23 Analyzed: 06/13/23

Barium 518 1.00 ug/l 500 24.4 98.6 70-130 3.72 25

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 Henchan

Reported:
06/19/23 12:25

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

Batch BGF0281 - General Preparation

Blank (BGF0281-BLK1)

Prepared: 06/07/23 Analyzed: 06/08/23

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BGF0281-BS1)

Prepared: 06/07/23 Analyzed: 06/08/23

Chloride	3.28	0.0600	mg/L	3.00	109	90-110
Sulfate	15.8	0.300	"	15.0	105	90-110

Duplicate (BGF0281-DUP1)

Source: 2306047-01

Prepared: 06/07/23 Analyzed: 06/08/23

Chloride	53.8	12.0	mg/L	56.0	4.01	20
Sulfate	250	60.0	"	257	2.84	20

Matrix Spike (BGF0281-MS1)

Source: 2306047-01

Prepared: 06/07/23 Analyzed: 06/08/23

Chloride	690	12.0	mg/L	600	56.0	106	80-120
Sulfate	3420	60.0	"	3000	257	105	80-120

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 Henchan

Reported:
06/19/23 12:25

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BGF0294 - General Preparation

Blank (BGF0294-BLK1)

Prepared & Analyzed: 06/08/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGF0294-DUP1)

Source: 2306053-01

Prepared & Analyzed: 06/08/23

Total Dissolved Solids 5520 10.0 mg/L 5200 6.06 20

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 Henchan

Reported:
06/19/23 12:25

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