

FREMONT ENVIRONMENTAL INC.

May 13, 2022

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

Subject: **Facility Closure Data Submittal**
70 Ranch 32-27
API # 05-123-22854
SWNE Sec. 27, T5N, R63W
Weld County, Colorado
Fremont Project No. C022-030
Facility #305360, Remediation #21412

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted facility closure activities for the Noble Energy Inc. (Noble) 70 Ranch 32-27 tank battery and flowline. Impacted soil was not encountered during the facility and flowline abandonment. Details of the 70 Ranch 32-27 facility closure activities are documented in the attached Closure Report. Groundwater was not encountered.

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

Attachments:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Reports

1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)

Tank Battery Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure	X	Flowline Closure	X	Partially Buried Vault Closure
Site Name & COGCC Facility Number: 70 Ranch 32-27, 274792		Date: 3/31/2022			Remediation Project #: 21412			
Associated Wells: 05-123-22854		Age of Site: 2004			Number of Photos Attached: 5			
Location: (GPS coordinates of southeaster berm) 40.372590, -104.420068						Estimated Facility Size (acres): 1.75		

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)
 Site in good condition

USCS Soil Type: Sand (SP) Estimated Depth to Groundwater: >55 feet

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
 None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
 None observed

Tanks

Tank Contents	Oil								
Size (barrels)	300								
Age	2004								
Construction Material	Steel								
Tank type (AST/BBV, etc.)	AST								
Visual Integrity of Tank	Good								
Condition of tank feet/wall	Good								
PID Readings	1.2 ppm highest								
Soil impacts present at valves or hatches?	No								
PID Readings	0.0ppm								
Sample taken? Location/ Sample ID#	AST Floor/ 2204025-01								
Photo Number(s)	1-3								

Other observations regarding tanks:

Separators

Separator size	~14 bbl	~14 bbl							
Vertical or Horizontal	horizontal	horizontal							
Age	2004	2004							
Soil impacts	No	No							
PID Readings	0.4 (SEP-E)	0.6 (SEP-W)							
Sample taken? Location/ Sample ID#	Floor/ 2204025-04	Floor/ 2204025-05							
Photo Number(s)	7	7							

Other observations regarding separators:

Third Party Equipment

Type									
Age									

Third Party Removal Date									
Sample taken? Location/Container									
PID Readings									
Photo Number(s)									

Other Facility Equipment

Equipment type	ECD - E	ECD - W		
Equipment Condition	Good	Good		
Age	2004	2004		
Soil impacts	None	None		
PID Readings	1.5 ppm	1.6 ppm		
Sample taken? Location/Container	No	No		
Photo Number(s)	4 and 7	4 and 7		

Other observations regarding other facility or third party equipment:

Summary

Was impacted soil identified?	
<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards
Total number of samples field screened: 9	Total number of samples collected: 9
Highest PID Reading: 1.6 ppm	Total number of samples submitted to lab for analysis: 3
If more than 10 cubic yards of impacted soil were observed:	
Vertical extent:	Estimated spill volume:
Lateral extent:	Volume of soil removed:
Is additional investigation required?	
Was groundwater encountered during the investigation?	
<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils
Measured depth to groundwater:	Was remedial groundwater removal conducted? Yes No
Date Groundwater was encountered:	Commencement date of removal:
Sheen on groundwater? Yes No	Volume of groundwater removed prior to sampling:
Free product observed? Yes No	Volume of groundwater removed post sampling:
Total number of samples collected:	Total Volume of groundwater removed:
Total number of samples submitted to lab for analysis:	

Buried or Partially Buried Vessel Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure	x	Flowline Closure	x	Tank Battery Closure
Site Name & COGCC Facility Number: 70 Ranch 32-27, 274792		Date: 3/31/2022		Remediation Project #: 21412				
Associated Wells: 05-123-22854		Age of Site: 2004		Number of Photos Attached: 2				
Location: (GPS coordinates of vault or southeastern tank berm for multiple) 40.372665, -104.420108						Estimated Facility Size (acres): 1.75		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Good condition								
USCS Soil Type: Sand (SP)				Estimated Depth to Groundwater: >55 feet				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Buried or Partially Buried Vessels								
Tank Contents	Produced Water							
Size (barrels)	100 bbls							
Age	2004							
Construction Material	Fiberglass							
Visual Integrity of Tank	Unknown							
Condition of tank	Good							
PID Readings	0.0 ppm							
Condition of Jumps Lines	good							
PID Readings	0.0 ppm							
Sample taken? Location/Sample ID#	2204025-02, 03							
Photo Number(s)	5,6							
Other observations regarding partially buried vessels:								
Summary								
Was impacted soil identified?								
x No		Yes - less than 10 cubic yards			Yes - more than 10 cubic yards			
Total number of samples field screened: 5				Total number of samples collected: 5				
Highest PID Reading: 0.0 ppm				Total number of samples submitted to lab for analysis: 2				
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:				Estimated spill volume:				
Lateral extent:				Volume of soil removed:				
Is additional investigation required?								
Was groundwater encountered during the investigation?								
X No		Yes - not impacted or in contact with impacted soils			Yes - groundwater impacted and/or in contact with impacted soils			
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No				
Date Groundwater was encountered:				Commencement date of removal:				
Sheen on groundwater? Yes No		Volume of groundwater removed prior to sampling:						
Free product observed? Yes No		Volume of groundwater removed post sampling:						
Total number of samples collected:				Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis:								

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:	x	Tank Battery Closure	Wellhead Closure		Pit Closure	x	Partially Buried Vault Closure
Site Name & COGCC Facility Number: 70 Ranch 32-27, 274792		Date: 3/31/2022			Remediation Project #: 21412		
Associated Wells: 05-123-22854		Age of Site: 2004			Number of Photos Attached: 3		
Starting point: (GPS coordinates and descriptions) 40.372434, -104.420069							
End point: (GPS coordinates and descriptions) 40.372876, -104.420222							
USCS Soil Type: Sand (SP)				Estimated Depth to Groundwater: >55			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed							
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed							
Flowlines							
Flowline type	2" steel						
Depth	~4 feet						
Age	2004						
Length	~170 feet						
Construction Material	Steel w/ epoxy coating						
Were flowlines pulled?	yes						
Visual Integrity of lines	good						
Visual impacts if trenched	none						
PID Readings if trenched	0.0ppm						
Sample taken? Location/Sample ID#	None						
Photo Number(s)	5,7, and 8						
Other observations regarding on location flowlines: Flowlines in good condition							
Summary							
Was impacted soil identified? x No Yes - less than 10 cubic yards Yes - more than 10 cubic yards							
Total number of samples field screened: 5				Total number of samples collected: 5			
Highest PID Reading: 0.0 ppm				Total number of samples submitted to lab for analysis: 0			
If more than 10 cubic yards of impacted soil were observed:							
Vertical extent:				Estimated spill volume:			
Lateral extent:				Volume of soil removed:			
Is additional investigation required?							
Was groundwater encountered during the investigation? X No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils							
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No			
Date Groundwater was encountered:				Commencement date of removal:			
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:			
Free product observed? Yes No				Volume of groundwater removed post sampling:			
Total number of samples collected:				Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:							

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
70 RANCH 32-27, WELD COUNTY, COLORADO
FREMONT PROJECT C022-030

Sample	Date Sampled	Depth (ft)	Location	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
AST-CEN SURFACE	03/31/2022	0	Floor	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
PWV-FLOOR 5FT	03/31/2022	5	Floor	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
PWV-N WALL 3FT	03/31/2022	3	Wall	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
SEP-E SURFACE	03/31/2022	0	Floor	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
SEP-W SURFACE	03/31/2022	0	Floor	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
COGCC Table 915-1 Limits (Residential SSL)				1.2	490	5.8	58	30	27	2	500	500	500
COGCC Table 915-1 Limits (Protection of Groundwater SSL)				0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500	500

Bold faced values exceed the COGCC Table 915-1 concentrations

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

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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
70 RANCH 32-27, WELD COUNTY, COLORADO
FREMONT PROJECT C022-030

Sample	Date Sampled	Depth (ft)	Location	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (a) pyrene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)
AST-CEN SURFACE	03/31/2022	0	Floor	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV-FLOOR 5FT	03/31/2022	5	Floor	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV-N WALL 3FT	03/31/2022	3	Wall	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-E SURFACE	03/31/2022	0	Floor	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-W SURFACE	03/31/2022	0	Floor	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
COGCC Table 915-1 Limits (Residential SSL)				360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)				0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019

Bold faced values exceed the COGCC Table 915-1 concentrations
Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
70 RANCH 32-27, WELD COUNTY, COLORADO
FREMONT PROJECT C022-030

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
AST-CEN SURFACE	03/31/2022	0	0.152	7.10	0.787	0.138
PWV-FLOOR 5FT	03/31/2022	5	0.281	7.78	0.422	0.104
PWV-N WALL 3FT	03/31/2022	3	0.159	7.69	0.756	0.127
SEP-E SURFACE	03/31/2022	0	0.0516	7.22	0.270	0.0198
SEP-W SURFACE	03/31/2022	0	0.151	6.89	1.03	0.0706
BKG1 1 Ft	4/7/2022	1	0.160	7.58	0.857	0.0651
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

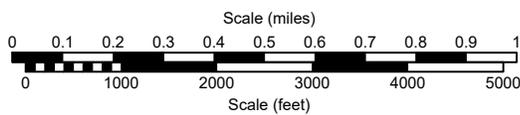
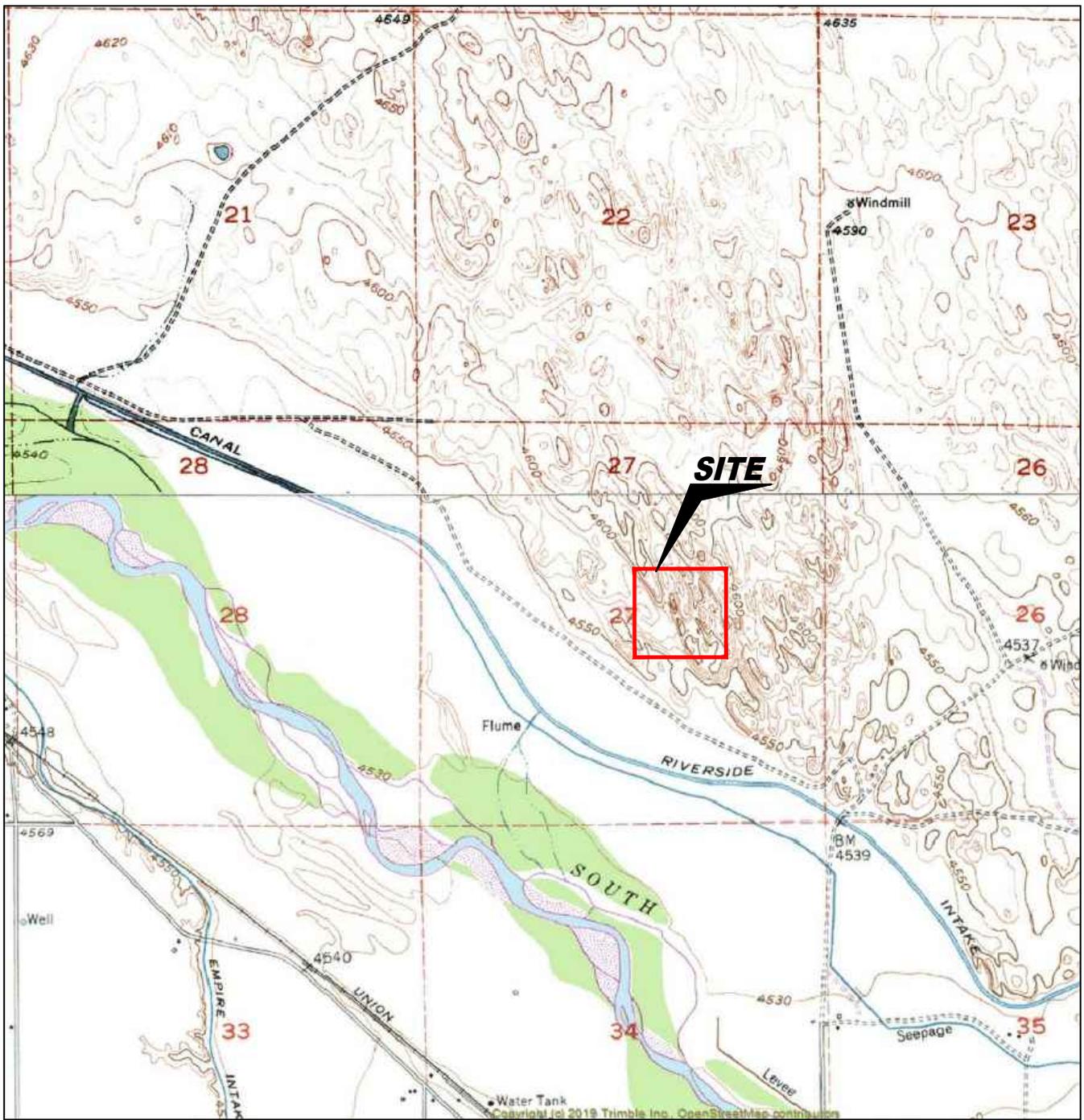
TABLE 4
SUMMARY OF POTHOLE FIELD OBSERVATIONS
NOBLE ENERGY INC.
70 RANCH 32-27, WELD COUNTY, COLORADO
FREMONT PROJECT C022-030

Location	Latitude	Longitude	PID Reading	Field Observations
Wellhead	40.372434	-104.420069	0.0	No soil impacts
Mid-point	40.372677	-104.420164	0.0	No soil impacts
Separator	40.372876	-104.420222	0.0	No soil impacts

TABLE 5
SUMMARY OF FLOW LINE CONDITION
NOBLE ENERGY INC.
70 RANCH 32-27, WELD COUNTY, COLORADO
FREMONT PROJECT C022-030

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
Wellhead	Mid-point	83	2" Sch 80 welded steel pipe, green epoxy, good condition
Mid-point	Separator	87	2" Sch 80 welded steel pipe, green epoxy, good condition

170 Total linear feet of flow line



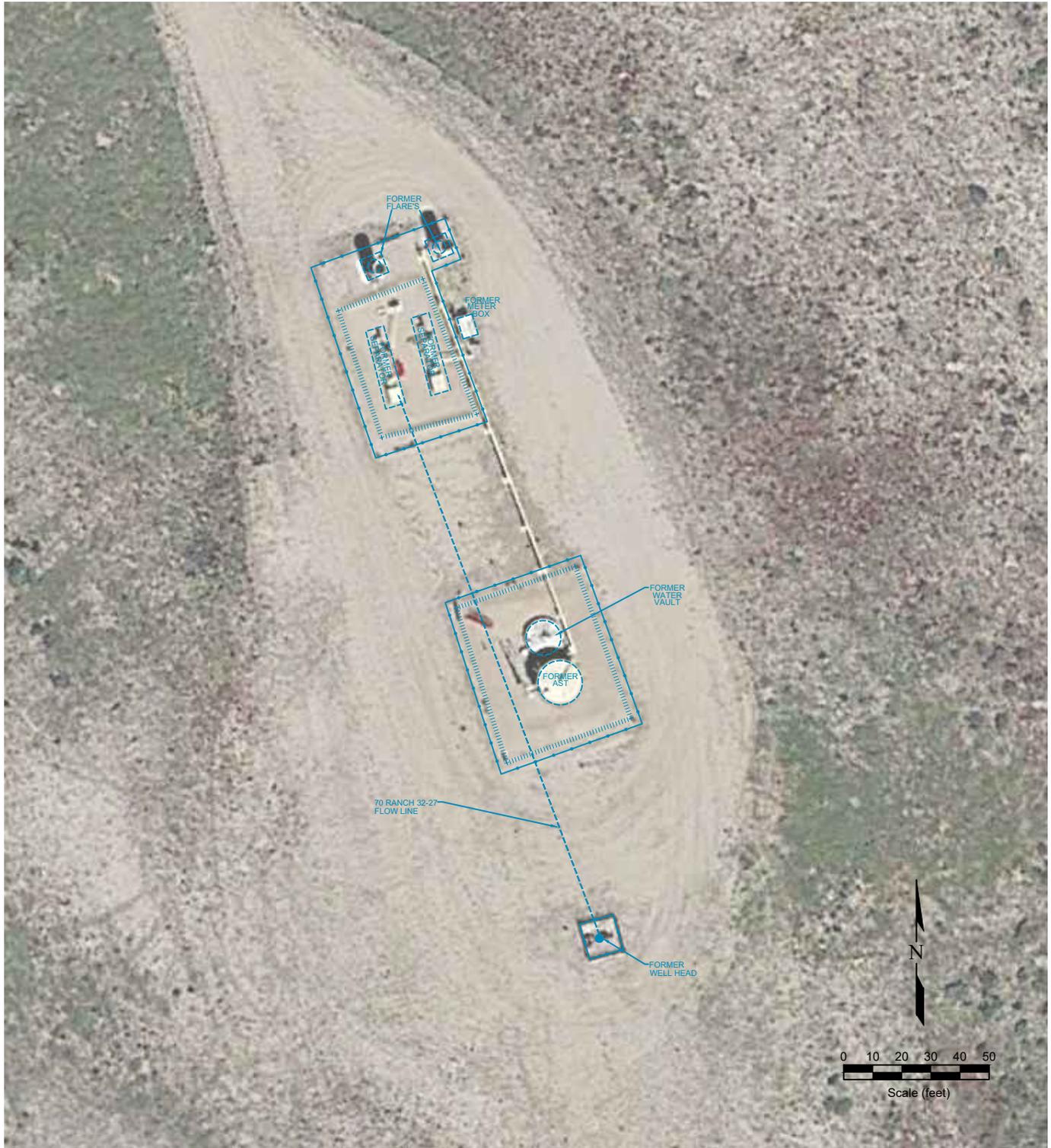
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc.
70 Ranch 32-27
SWNE Sec. 27, T5N, R63W, 6th PM
Weld County, Colorado

Project # C022-030	API # 05-123-22854	Facility # 274792
Date 4/7/22	Remediation # 21412	Filename 22030T





LEGEND

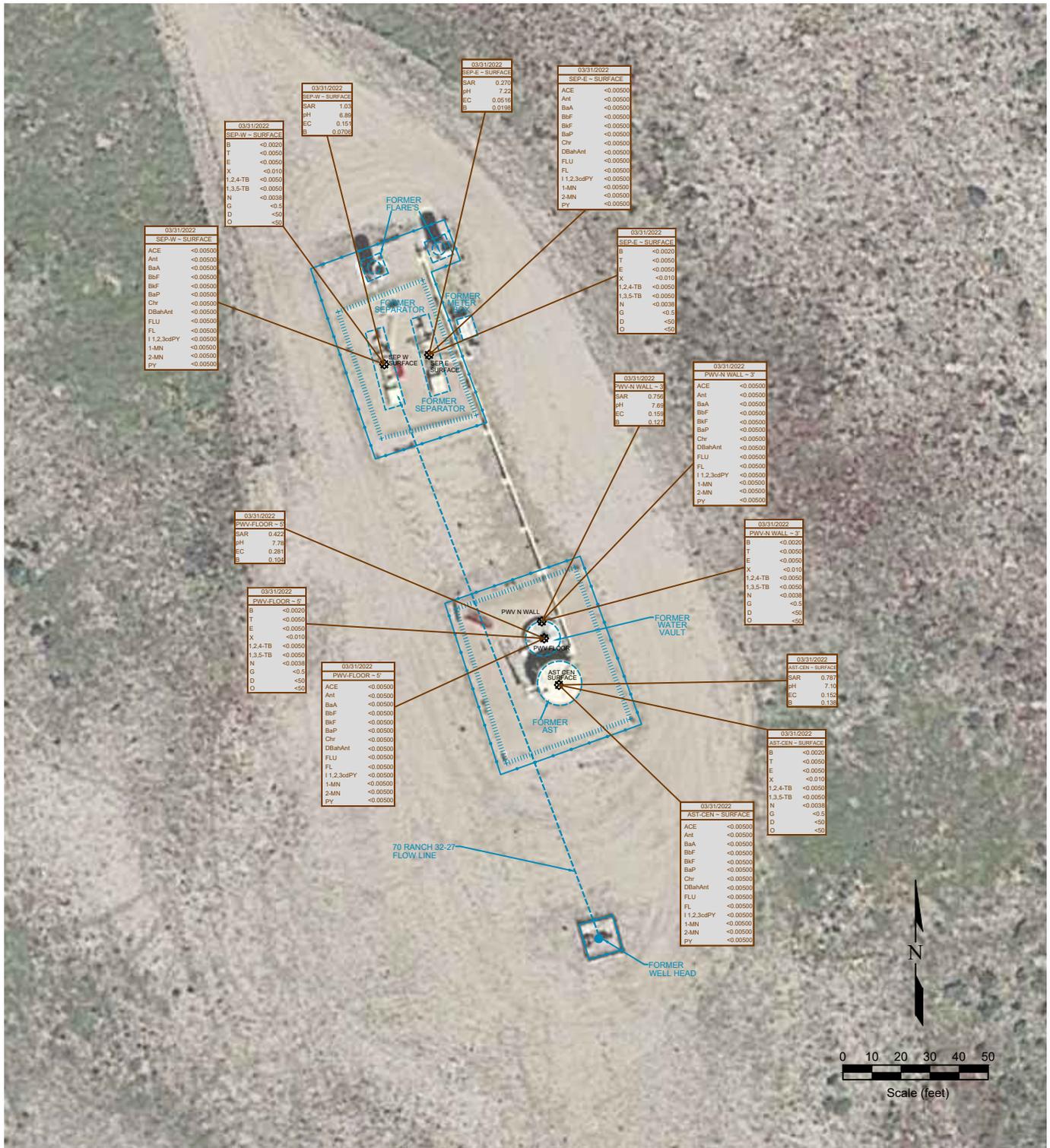
- WELL HEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER FACILITY
- CONTAINMENT BERM
- FLOW LINE
- FENCE LINE

**Figure 2
SITE MAP**

Noble Energy, Inc.
70 Ranch 32-27
 SWNE Sec. 27, T5N, R63W, 6th PM
 Weld County, Colorado

Project No. C022-030	API # 05-123-22854	Facility # 274792
Date 4/7/22	Remediation # 21412	Filename 22030Q





LEGEND

- WELL HEAD LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT BERM
- FLOW LINE
- FENCE LINE

03/31/2022	DATE SAMPLED	03/31/2022	DATE SAMPLED
AST-CEN - SURFACE	SAMPLE ID and DEPTH (ft)	AST-CEN - SURFACE	SAMPLE ID and DEPTH (ft)
ACE	ACENAPHTHENE (mg/kg)	B	BENZENE (mg/kg)
Ant	ANTHRACENE (mg/kg)	T	TOLUENE (mg/kg)
BaA	BENZO (A) ANTHRACENE (mg/kg)	E	ETHYLBENZENE (mg/kg)
BbF	BENZO (B) FLUORANTHENE (mg/kg)	X	TOTAL XYLENES (mg/kg)
BkF	BENZO (K) FLUORANTHENE (mg/kg)	1,2,4-TB	1,2,4-TRIMETHYLBENZENE (mg/kg)
BaP	BENZO (A) PYRENE (mg/kg)	1,3,5-TB	1,3,5-TRIMETHYLBENZENE (mg/kg)
Chr	CHRYSENE (mg/kg)	N	NAPHTHALENE (mg/kg)
DBahAnt	DIBENZ (A,H) ANTHRACENE (mg/kg)	G	TPH-GRO (mg/kg)
FLU	FLUORANTHENE (mg/kg)	D	TPH-ORO (mg/kg)
FL	FLUORENE (mg/kg)	O	TPH-ORO (mg/kg)
1,1,2,3cdPY	INDENO (1,2,3-CD) PYRENE (mg/kg)		
1-MN	1-METHYLNAPHTHALENE (mg/kg)	03/31/2022	DATE SAMPLED
2-MN	2-METHYLNAPHTHALENE (mg/kg)	AST-CEN - SURFACE	SAMPLE ID & DEPTH (ft)
PY	PYRENE (mg/kg)	SAR	SAR (units)
		pH	pH (pH units)
		EC	EC (microsiemens)
		B	BORON (mg/L)

Figure 3
SOIL CHEMISTRY MAP
March 31, 2022

Noble Energy, Inc.
70 Ranch 32-27
SWNE Sec. 27, T5N, R63W, 6th PM
Weld County, Colorado

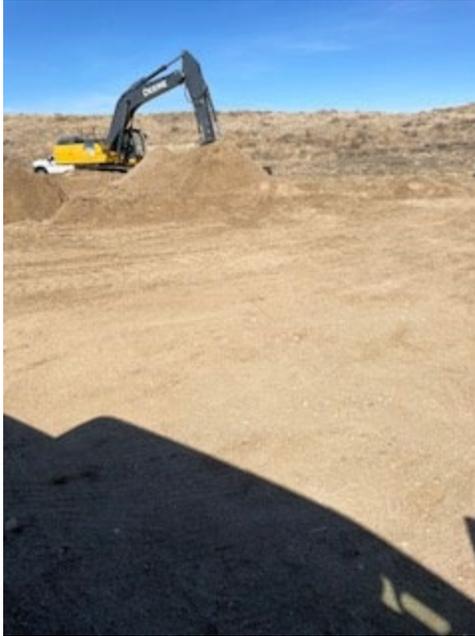
Project No. C022-030	API # 05-123-22854	Facility # 274792	
Date 5/13/22	Remediation # 21412	Filename 22030Q	



1 – 70 Ranch 32-27 – AST following removal; good condition



2 – 70 Ranch 32-27 – AST bottom; good condition



**3 – 70 Ranch 32-27 – former AST location with no surface staining;
looking northeast**



4 – 70 Ranch 32-27 – ECDs loaded on trailer, good condition



5 – 70 Ranch 32-27 – former produced water vault (PWV) location and flowline mid-point bell hole; looking north



6 – 70 Ranch 32-27 – PWV excavation; looking east. Circular fiberglass vault removed prior to arrival



**7 – 70 Ranch 32-27 – former separator and ECD location
and bell hole at the N end of the flow line**



**8 – 70 Ranch 32-27 – flow line closeup
removed at former wellhead location; 2-inch steel,
green epoxy coating, good condition**

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 15, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - 70 Ranch 32-27
Work Order #2204025

Enclosed are the results of analyses for samples received by Summit Scientific on 04/01/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-CEN SURFACE	2204025-01	Soil	03/31/22 00:00	04/01/22 15:00
PWV-N WALL 3FT	2204025-02	Soil	03/31/22 00:00	04/01/22 15:00
PWV-FLOOR 5FT	2204025-03	Soil	03/31/22 00:00	04/01/22 15:00
SEP-E SURFACE	2204025-04	Soil	03/31/22 00:00	04/01/22 15:00
SEP-W SURFACE	2204025-05	Soil	03/31/22 00:00	04/01/22 15:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

S₂

2204025

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: Jacob
 Phone: 303-956-8714 Project Name: Noble 70 Ranch 32-27
 Sampler Name: EB 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	GBTEXN - 915	BTEX - 910	GRO	DRO/ORO	SAR	EC	pH	Boron		PAH - 915		
1	AST-CEN SURFACE	3/31/22		1			X			X														
2	PW-N WALL 3FT																							
3	PW-F FLOOR 5FT																							
4	SEP-E SURFACE																							
5	SEP-W SURFACE																							
6																								
7																								
8																								
9																								
10																								

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>4/1/22</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/1/22 1500</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>4.3</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		



Sample Receipt Checklist

S2 Work Order# 2204025

Client: Fremont Client Project ID: Noble 70 Ranch 32-27

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 4.3

Thermometer ID: 61857155-K

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

Additional Comments (if any):

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

[Signature]
Custodian Printed Name or Initials

4.1.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

AST-CEN SURFACE

2204025-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFD0043	04/04/22	04/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		130 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0044	04/04/22	04/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		87.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

AST-CEN SURFACE
2204025-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0046	04/04/22	04/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		47.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		36.7 %	40-150		"	"	"	"	S-02

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.138	0.0100	mg/L	1	BFD0140	04/07/22	04/14/22	EPA 6020B	

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

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

AST-CEN SURFACE
2204025-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8.12	0.0525	mg/L dry	1	BFD0202	04/11/22	04/13/22	EPA 6020B	
Magnesium	3.27	0.0525	"	"	"	"	"	"	
Sodium	10.5	0.0525	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.787	0.00100	units	1	BFD0273	04/13/22	04/13/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BFD0201	04/11/22	04/11/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.152	0.0100	mmhos/cm	1	BFD0229	04/12/22	04/12/22	EPA 120.1	

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

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.10		pH Units	1	BFD0228	04/12/22	04/12/22	EPA 9045D	

Summit Scientific

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Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

PWV-N WALL 3FT
2204025-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0043	04/04/22	04/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		136 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0044	04/04/22	04/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

PWV-N WALL 3FT
2204025-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0046	04/04/22	04/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.127	0.0100	mg/L	1	BFD0140	04/07/22	04/14/22	EPA 6020B	

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

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

**PWV-N WALL 3FT
 2204025-02 (Soil)**

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	7.54	0.0521	mg/L dry	1	BFD0202	04/11/22	04/13/22	EPA 6020B	
Magnesium	2.82	0.0521	"	"	"	"	"	"	
Sodium	9.58	0.0521	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.756	0.00100	units	1	BFD0273	04/13/22	04/13/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BFD0201	04/11/22	04/11/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.159	0.0100	mmhos/cm	1	BFD0229	04/12/22	04/12/22	EPA 120.1	

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

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69		pH Units	1	BFD0228	04/12/22	04/12/22	EPA 9045D	

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Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

PWV-FLOOR 5FT
2204025-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0043	04/04/22	04/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		143 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0044	04/04/22	04/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		84.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

PWV-FLOOR 5FT
2204025-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0046	04/04/22	04/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.104	0.0100	mg/L	1	BFD0140	04/07/22	04/14/22	EPA 6020B	

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

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

PWV-FLOOR 5FT
2204025-03 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.1	0.0526	mg/L dry	1	BFD0202	04/11/22	04/13/22	EPA 6020B	
Magnesium	6.33	0.0526	"	"	"	"	"	"	
Sodium	7.89	0.0526	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.422	0.00100	units	1	BFD0273	04/13/22	04/13/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BFD0201	04/11/22	04/11/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.281	0.0100	mmhos/cm	1	BFD0229	04/12/22	04/12/22	EPA 120.1	

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

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BFD0228	04/12/22	04/12/22	EPA 9045D	

Summit Scientific

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PO Box 1289
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Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

SEP-E SURFACE
2204025-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0043	04/04/22	04/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		143 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0044	04/04/22	04/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

SEP-E SURFACE
2204025-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0046	04/04/22	04/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		51.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0198	0.0100	mg/L	1	BFD0140	04/07/22	04/14/22	EPA 6020B	

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

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

SEP-E SURFACE
2204025-04 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6.07	0.0539	mg/L dry	1	BFD0202	04/11/22	04/13/22	EPA 6020B	
Magnesium	2.56	0.0539	"	"	"	"	"	"	
Sodium	3.15	0.0539	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.270	0.00100	units	1	BFD0273	04/13/22	04/13/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BFD0201	04/11/22	04/11/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0516	0.0100	mmhos/cm	1	BFD0229	04/12/22	04/12/22	EPA 120.1	

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

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.22		pH Units	1	BFD0228	04/12/22	04/12/22	EPA 9045D	

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PO Box 1289
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Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

SEP-W SURFACE
2204025-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0043	04/04/22	04/05/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		135 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0044	04/04/22	04/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

SEP-W SURFACE
2204025-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0046	04/04/22	04/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		55.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		41.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0706	0.0100	mg/L	1	BFD0140	04/07/22	04/14/22	EPA 6020B	

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

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

SEP-W SURFACE
2204025-05 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5.98	0.0529	mg/L dry	1	BFD0202	04/11/22	04/13/22	EPA 6020B	
Magnesium	2.52	0.0529	"	"	"	"	"	"	
Sodium	11.9	0.0529	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.00100	units	1	BFD0273	04/13/22	04/13/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BFD0201	04/11/22	04/11/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.151	0.0100	mmhos/cm	1	BFD0229	04/12/22	04/12/22	EPA 120.1	

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

Date Sampled: **03/31/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.89		pH Units	1	BFD0228	04/12/22	04/12/22	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFD0043 - EPA 5030 Soil MS

Blank (BFD0043-BLK1)

Prepared & Analyzed: 04/04/22

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0556		"	0.0400		139	50-150				
<i>Surrogate: Toluene-d8</i>	0.0404		"	0.0400		101	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0428		"	0.0400		107	50-150				

LCS (BFD0043-BS1)

Prepared & Analyzed: 04/04/22

Benzene	0.0836	0.0020	mg/kg	0.100		83.6	70-130				
Toluene	0.0996	0.0050	"	0.100		99.6	70-130				
Ethylbenzene	0.0940	0.0050	"	0.100		94.0	70-130				
m,p-Xylene	0.196	0.010	"	0.200		97.8	70-130				
o-Xylene	0.0980	0.0050	"	0.100		98.0	70-130				
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100		107	70-130				
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130				
Naphthalene	0.107	0.0038	"	0.100		107	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0500		"	0.0400		125	50-150				
<i>Surrogate: Toluene-d8</i>	0.0424		"	0.0400		106	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0424		"	0.0400		106	50-150				

Matrix Spike (BFD0043-MS1)

Source: 2204022-01

Prepared & Analyzed: 04/04/22

Benzene	0.0919	0.0020	mg/kg	0.100	ND	91.9	70-130				
Toluene	0.104	0.0050	"	0.100	ND	104	70-130				
Ethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130				
m,p-Xylene	0.200	0.010	"	0.200	ND	100	70-130				
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130				
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130				
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130				
Naphthalene	0.129	0.0038	"	0.100	ND	129	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0509		"	0.0400		127	50-150				
<i>Surrogate: Toluene-d8</i>	0.0412		"	0.0400		103	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0432		"	0.0400		108	50-150				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFD0043 - EPA 5030 Soil MS

Matrix Spike Dup (BFD0043-MSD1)	Source: 2204022-01			Prepared & Analyzed: 04/04/22						
Benzene	0.0948	0.0020	mg/kg	0.100	ND	94.8	70-130	3.12	30	
Toluene	0.107	0.0050	"	0.100	ND	107	70-130	2.54	30	
Ethylbenzene	0.0975	0.0050	"	0.100	ND	97.5	70-130	0.710	30	
m,p-Xylene	0.205	0.010	"	0.200	ND	102	70-130	2.40	30	
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130	1.44	30	
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	0.985	30	
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	1.77	30	
Naphthalene	0.123	0.0038	"	0.100	ND	123	70-130	4.82	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0514</i>		<i>"</i>	<i>0.0400</i>		<i>128</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0420</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFD0044 - EPA 3550A

Blank (BFD0044-BLK1)

Prepared & Analyzed: 04/04/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFD0044-BS1)

Prepared & Analyzed: 04/04/22

C10-C28 (DRO)	477	50	mg/kg	500	95.3	70-130				
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Matrix Spike (BFD0044-MS1)

Source: 2204022-01

Prepared & Analyzed: 04/04/22

C10-C28 (DRO)	451	50	mg/kg	500	28.3	84.5	70-130			
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Matrix Spike Dup (BFD0044-MSD1)

Source: 2204022-01

Prepared & Analyzed: 04/04/22

C10-C28 (DRO)	453	50	mg/kg	500	28.3	84.9	70-130	0.384	20	
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PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFD0046 - EPA 5030 Soil MS

Blank (BFD0046-BLK1)

Prepared & Analyzed: 04/04/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0178</i>		"	<i>0.0333</i>		<i>53.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0161</i>		"	<i>0.0333</i>		<i>48.3</i>	<i>40-150</i>			

LCS (BFD0046-BS1)

Prepared: 04/04/22 Analyzed: 04/05/22

Acenaphthene	0.0202	0.00500	mg/kg	0.0333		60.5	31-137			
Anthracene	0.0198	0.00500	"	0.0333		59.5	30-120			
Benzo (a) anthracene	0.0208	0.00500	"	0.0333		62.5	30-120			
Benzo (a) pyrene	0.0188	0.00500	"	0.0333		56.4	30-120			
Benzo (b) fluoranthene	0.0197	0.00500	"	0.0333		59.2	30-120			
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333		60.5	30-120			
Chrysene	0.0193	0.00500	"	0.0333		57.9	30-120			
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333		60.6	30-120			
Fluoranthene	0.0204	0.00500	"	0.0333		61.2	30-120			
Fluorene	0.0177	0.00500	"	0.0333		53.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0295	0.00500	"	0.0333		88.4	30-120			
Pyrene	0.0212	0.00500	"	0.0333		63.6	35-142			
1-Methylnaphthalene	0.0211	0.00500	"	0.0333		63.2	35-142			
2-Methylnaphthalene	0.0188	0.00500	"	0.0333		56.4	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0194</i>		"	<i>0.0333</i>		<i>58.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0201</i>		"	<i>0.0333</i>		<i>60.4</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFD0046 - EPA 5030 Soil MS

Matrix Spike (BFD0046-MS1)	Source: 2204021-01			Prepared: 04/04/22 Analyzed: 04/05/22							
Acenaphthene	0.0541	0.00500	mg/kg	0.0333	ND	162	31-137				S-02
Anthracene	0.0236	0.00500	"	0.0333	ND	70.7	30-120				
Benzo (a) anthracene	0.0235	0.00500	"	0.0333	ND	70.4	30-120				
Benzo (a) pyrene	0.0549	0.00500	"	0.0333	0.0645	NR	30-120				S-02
Benzo (b) fluoranthene	0.0352	0.00500	"	0.0333	ND	106	30-120				
Benzo (k) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.1	30-120				
Chrysene	0.0518	0.00500	"	0.0333	0.0488	9.27	30-120				S-02
Dibenz (a,h) anthracene	0.0346	0.00500	"	0.0333	ND	104	30-120				
Fluoranthene	0.0166	0.00500	"	0.0333	ND	49.7	30-120				
Fluorene	0.0444	0.00500	"	0.0333	ND	133	30-120				S-02
Indeno (1,2,3-cd) pyrene	0.0394	0.00500	"	0.0333	ND	118	30-120				
Pyrene	0.0390	0.00500	"	0.0333	0.00703	95.9	35-142				
1-Methylnaphthalene	0.0265	0.00500	"	0.0333	ND	79.6	15-130				
2-Methylnaphthalene	0.0222	0.00500	"	0.0333	ND	66.6	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0222</i>		<i>"</i>	<i>0.0333</i>		<i>66.7</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0174</i>		<i>"</i>	<i>0.0333</i>		<i>52.2</i>	<i>40-150</i>				

Matrix Spike Dup (BFD0046-MSD1)	Source: 2204021-01			Prepared: 04/04/22 Analyzed: 04/05/22							
Acenaphthene	0.0174	0.00500	mg/kg	0.0333	ND	52.1	31-137	103	30		S-02
Anthracene	0.0246	0.00500	"	0.0333	ND	73.9	30-120	4.34	30		
Benzo (a) anthracene	0.0270	0.00500	"	0.0333	ND	81.1	30-120	14.1	30		
Benzo (a) pyrene	0.0735	0.00500	"	0.0333	0.0645	26.9	30-120	28.9	30		S-02
Benzo (b) fluoranthene	0.0339	0.00500	"	0.0333	ND	102	30-120	3.96	30		
Benzo (k) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	34.1	30		S-02
Chrysene	0.0814	0.00500	"	0.0333	0.0488	98.0	30-120	44.4	30		S-02
Dibenz (a,h) anthracene	0.0331	0.00500	"	0.0333	ND	99.4	30-120	4.19	30		
Fluoranthene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	9.86	30		
Fluorene	0.00687	0.00500	"	0.0333	ND	20.6	30-120	146	30		S-02
Indeno (1,2,3-cd) pyrene	0.0604	0.00500	"	0.0333	ND	181	30-120	42.2	30		S-02
Pyrene	0.0453	0.00500	"	0.0333	0.00703	115	35-142	15.1	30		
1-Methylnaphthalene	0.0252	0.00500	"	0.0333	ND	75.6	15-130	5.08	50		
2-Methylnaphthalene	0.0247	0.00500	"	0.0333	ND	74.1	15-130	10.7	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>72.9</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0171</i>		<i>"</i>	<i>0.0333</i>		<i>51.4</i>	<i>40-150</i>				

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 - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

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 BFD0140 - EPA 3050B

Blank (BFD0140-BLK1)

Prepared: 04/07/22 Analyzed: 04/14/22

Boron ND 0.0100 mg/L

LCS (BFD0140-BS1)

Prepared: 04/07/22 Analyzed: 04/14/22

Boron 5.09 0.0100 mg/L 5.00 102 80-120

Duplicate (BFD0140-DUP1)

Source: 2204024-01

Prepared: 04/07/22 Analyzed: 04/14/22

Boron 0.106 0.0100 mg/L 0.115 7.93 20

Matrix Spike (BFD0140-MS1)

Source: 2204024-01

Prepared: 04/07/22 Analyzed: 04/14/22

Boron 5.50 0.0100 mg/L 5.00 0.115 108 75-125

Matrix Spike Dup (BFD0140-MSD1)

Source: 2204024-01

Prepared: 04/07/22 Analyzed: 04/14/22

Boron 5.38 0.0100 mg/L 5.00 0.115 105 75-125 2.23 25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

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

Summit Scientific

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

Batch BFD0202 - General Preparation

Blank (BFD0202-BLK1)

Prepared: 04/11/22 Analyzed: 04/13/22

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

LCS (BFD0202-BS1)

Prepared: 04/11/22 Analyzed: 04/13/22

Calcium	5.43	0.0500	mg/L wet	5.00		109	70-130			
Magnesium	5.68	0.0500	"	5.00		114	70-130			
Sodium	4.74	0.0500	"	5.00		94.8	70-130			

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 - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

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 BFD0201 - General Preparation

Duplicate (BFD0201-DUP1)

Source: 2204025-01

Prepared & Analyzed: 04/11/22

% Solids	94.5		%		95.3			0.836	20	
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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 - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

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 BFD0229 - General Preparation

Blank (BFD0229-BLK1)

Prepared & Analyzed: 04/12/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFD0229-BS1)

Prepared & Analyzed: 04/12/22

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

Duplicate (BFD0229-DUP1)

Source: 2203553-01

Prepared & Analyzed: 04/12/22

Specific Conductance (EC) 0.832 0.0100 mmhos/cm 0.843 1.35 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 - 70 Ranch 32-27

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/15/22 09:20

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 BFD0228 - General Preparation

LCS (BFD0228-BS1)

Prepared & Analyzed: 04/12/22

pH 9.07 pH Units 9.18 98.8 95-105

Duplicate (BFD0228-DUP1)

Source: 2203553-01

Prepared & Analyzed: 04/12/22

pH 7.84 pH Units 7.65 2.45 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 - 70 Ranch 32-27

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/15/22 09:20

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- 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

April 18, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - 70 Ranch
Work Order #2204100

Enclosed are the results of analyses for samples received by Summit Scientific on 04/07/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/22 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG1 1ft	2204100-01	Soil	04/07/22 00:00	04/07/22 15:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

2204100

S₂

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: Jacob
 Phone: 303-956-8714 Project Name: Noble - 70 RANCH
 Sampler Name: Black 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	GBTEXN - 915	BTEX - 910	GRO	DRO/ORO	SAR	EC		pH	Boroy / 915 Metals	PAH - 915
1	BXG 1 IPT	4/7/22		1			X			X								X	X	X	X	
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>4/7/22</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/7/22 1500</u>	Turn Around Time (Check)	Notes:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>		72 hours <input type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/>		Standard <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/>	Sample Integrity:	
				Temperature Upon Receipt: <u>43</u>		
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No		



2204100

Sample Receipt Checklist

S2 Work Order# _____

Client: Fremont Client Project ID: Noble-70 Ranch

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 43

Thermometer ID: 61857155-K

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

Additional Comments (if any):

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

[Signature]
Custodian Printed Name or Initials

4.7.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/22 14:29

BKG1 1ft
2204100-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0651	0.0100	mg/L	1	BFD0247	04/13/22	04/15/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.876	0.203	mg/kg dry	1	BFD0178	04/13/22	04/14/22	EPA 6020B	
Barium	17.1	0.406	"	"	"	"	"	"	
Cadmium	ND	0.203	"	"	"	"	"	"	
Copper	1.38	0.406	"	"	"	"	"	"	
Lead	2.46	0.203	"	"	"	"	"	"	
Nickel	1.43	0.406	"	"	"	"	"	"	
Selenium	0.318	0.264	"	"	"	"	"	"	
Silver	ND	0.0203	"	"	"	"	"	"	
Zinc	6.94	0.406	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFD0249	04/13/22	04/13/22	EPA 7196A	

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

Date Sampled: **04/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.9	0.0508	mg/L dry	1	BFD0294	04/14/22	04/17/22	EPA 6020B	
Magnesium	5.31	0.0508	"	"	"	"	"	"	
Sodium	13.8	0.0508	"	"	"	"	"	"	

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 - 70 Ranch

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/22 14:29

BKG1 1ft
2204100-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.857	0.00100	units	1	BFD0339	04/18/22	04/18/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.4		%	1	BFD0263	04/13/22	04/13/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.160	0.0100	mmhos/cm	1	BFD0315	04/15/22	04/15/22	EPA 120.1	

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

Date Sampled: **04/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.58		pH Units	1	BFD0313	04/15/22	04/15/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/22 14:29

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 BFD0247 - EPA 3050B

Blank (BFD0247-BLK1)

Prepared: 04/13/22 Analyzed: 04/15/22

Boron ND 0.0100 mg/L

LCS (BFD0247-BS1)

Prepared: 04/13/22 Analyzed: 04/15/22

Boron 4.84 0.0100 mg/L 5.00 96.7 80-120

Duplicate (BFD0247-DUP1)

Source: 2204099-01

Prepared: 04/13/22 Analyzed: 04/15/22

Boron 0.148 0.0100 mg/L 0.166 11.8 20

Matrix Spike (BFD0247-MS1)

Source: 2204099-01

Prepared: 04/13/22 Analyzed: 04/15/22

Boron 5.02 0.0100 mg/L 5.00 0.166 97.0 75-125

Matrix Spike Dup (BFD0247-MSD1)

Source: 2204099-01

Prepared: 04/13/22 Analyzed: 04/15/22

Boron 5.18 0.0100 mg/L 5.00 0.166 100 75-125 3.28 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/22 14:29

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 BFD0178 - EPA 3050B

Blank (BFD0178-BLK1)

Prepared: 04/13/22 Analyzed: 04/14/22

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 (BFD0178-BS1)

Prepared: 04/13/22 Analyzed: 04/14/22

Arsenic	34.3	0.200	mg/kg wet	40.0	85.8	80-120
Barium	33.5	0.400	"	40.0	83.7	80-120
Cadmium	1.72	0.200	"	2.00	86.1	80-120
Copper	32.5	0.400	"	40.0	81.2	80-120
Lead	16.9	0.200	"	20.0	84.5	80-120
Nickel	35.3	0.400	"	40.0	88.3	80-120
Selenium	3.46	0.260	"	4.00	86.4	80-120
Silver	1.66	0.0200	"	2.00	82.8	80-120
Zinc	35.2	0.400	"	40.0	87.9	80-120

Duplicate (BFD0178-DUP1)

Source: 2204039-01

Prepared: 04/13/22 Analyzed: 04/14/22

Arsenic	0.862	0.236	mg/kg dry	0.820	4.97	20
Barium	17.4	0.473	"	17.0	2.31	20
Cadmium	0.0422	0.236	"	0.0446	5.47	20
Copper	3.10	0.473	"	2.81	9.94	20
Lead	4.99	0.236	"	5.07	1.48	20
Nickel	4.19	0.473	"	3.84	8.72	20
Selenium	0.470	0.307	"	0.454	3.41	20
Silver	0.0457	0.0236	"	0.0458	0.279	20
Zinc	20.3	0.473	"	18.3	10.3	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 - 70 Ranch

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/22 14:29

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 BFD0178 - EPA 3050B

Matrix Spike (BFD0178-MS1)

Source: 2204039-01

Prepared: 04/13/22 Analyzed: 04/14/22

Arsenic	44.5	0.236	mg/kg dry	47.3	0.820	92.4	75-125			
Barium	57.7	0.473	"	47.3	17.0	86.1	75-125			
Cadmium	2.20	0.236	"	2.36	0.0446	91.2	75-125			
Copper	42.5	0.473	"	47.3	2.81	84.0	75-125			
Lead	24.5	0.236	"	23.6	5.07	82.0	75-125			
Nickel	43.0	0.473	"	47.3	3.84	82.8	75-125			
Selenium	4.20	0.307	"	4.73	0.454	79.1	75-125			
Silver	2.06	0.0236	"	2.36	0.0458	85.4	75-125			
Zinc	62.4	0.473	"	47.3	18.3	93.1	75-125			

Matrix Spike Dup (BFD0178-MSD1)

Source: 2204039-01

Prepared: 04/13/22 Analyzed: 04/14/22

Arsenic	42.8	0.236	mg/kg dry	47.3	0.820	88.9	75-125	3.81	25	
Barium	50.3	0.473	"	47.3	17.0	70.3	75-125	13.8	25	QM-05
Cadmium	1.90	0.236	"	2.36	0.0446	78.6	75-125	14.6	25	
Copper	41.1	0.473	"	47.3	2.81	81.1	75-125	3.33	25	
Lead	21.3	0.236	"	23.6	5.07	68.9	75-125	13.6	25	QM-05
Nickel	41.5	0.473	"	47.3	3.84	79.6	75-125	3.52	25	
Selenium	4.20	0.307	"	4.73	0.454	79.3	75-125	0.120	25	
Silver	1.78	0.0236	"	2.36	0.0458	73.3	75-125	14.8	25	QM-05
Zinc	60.4	0.473	"	47.3	18.3	88.9	75-125	3.26	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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/22 14:29

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFD0249 - 3060A Mod

Blank (BFD0249-BLK1)

Prepared & Analyzed: 04/13/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFD0249-BS1)

Prepared & Analyzed: 04/13/22

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BFD0249-DUP1)

Source: 2204095-09

Prepared & Analyzed: 04/13/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFD0249-MS1)

Source: 2204095-09

Prepared & Analyzed: 04/13/22

Chromium, Hexavalent 35.6 0.30 mg/kg dry 29.8 ND 120 75-125

Matrix Spike Dup (BFD0249-MSD1)

Source: 2204095-09

Prepared & Analyzed: 04/13/22

Chromium, Hexavalent 33.7 0.30 mg/kg dry 29.8 ND 113 75-125 5.50 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/22 14:29

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

Summit Scientific

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

Batch BFD0294 - General Preparation

Blank (BFD0294-BLK1)

Prepared: 04/14/22 Analyzed: 04/17/22

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

LCS (BFD0294-BS1)

Prepared: 04/14/22 Analyzed: 04/17/22

Calcium	5.37	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.70	0.0500	"	5.00	114	70-130
Sodium	5.19	0.0500	"	5.00	104	70-130

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/22 14:29

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 BFD0263 - General Preparation

Duplicate (BFD0263-DUP1)	Source: 2204099-01			Prepared & Analyzed: 04/13/22								
% Solids	95.4		%		96.4				1.13		20	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/22 14:29

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 BFD0315 - General Preparation

Blank (BFD0315-BLK1)

Prepared & Analyzed: 04/15/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFD0315-BS1)

Prepared & Analyzed: 04/15/22

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BFD0315-DUP1)

Source: 2204061-01

Prepared & Analyzed: 04/15/22

Specific Conductance (EC) 4.11 0.0100 mmhos/cm 4.17 1.35 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - 70 Ranch

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/22 14:29

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 BFD0313 - General Preparation

LCS (BFD0313-BS1)

Prepared & Analyzed: 04/15/22

pH 9.03 pH Units 9.18 98.4 95-105

Duplicate (BFD0313-DUP1)

Source: 2204061-01

Prepared & Analyzed: 04/15/22

pH 8.04 pH Units 7.99 0.624 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - 70 Ranch

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/22 14:29

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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