

FREMONT ENVIRONMENTAL INC.

March 15, 2021

Mr. Jacob Evans
Noble Energy Inc.
2115 117th Ave,
Greeley, CO 80634

Subject: **Inorganic Soil Site Investigation Report**
 Shable USX AB 11-04P
 API # 05-123-30633
 NWNW Sec 11, T7N, R64W
 Weld County, Colorado
 Fremont Project No. C020-084
 Facility # 407926, Remediation #15910

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Inorganic Soil Site Investigation Report for the Shable USX AB 11-04P site in Weld County, Colorado. The enclosed report describes site investigation and sampling efforts to assess soil quality at the site.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Enclosure

INORGANIC SOIL SITE INVESTIGATION REPORT

NOBLE ENERGY INC.

SHABLE USX AB 11-04P

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C020-084

FACILITY # 407926, REMEDIATION #15910

Prepared by:

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

March 15, 2021

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INORGANIC SOIL SITE INVESTIGATION REPORT

NOBLE ENERGY INC.

SHABLE USX AB 11-04P

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C020-084

FACILITY # 407926, REMEDIATION #15910

1.0 INTRODUCTION

The purpose of this document is to present soil quality data collected during a site investigation at the Shable USX AB 11-04P site in Weld County, Colorado. Inorganic soil concentrations exceeding the COGCC Table 910-1 standards were identified at this location while removing the produced water vault during the site's abandonment. Nine soil borings were advanced using a hand auger at this site between November 13, 2020 and January 4, 2021 to delineate the magnitude and extent of elevated inorganic soil concentrations in the subsurface.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Shable USX AB 11-04P site is located approximately 11 miles east of Ault, Colorado in Weld County as shown on Figure 1. The site is located in an agricultural area approximately 2.2 miles northeast of the intersection County Rd. 80 and County Rd. 55. The location is further described as the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 11, Township 7N, Range 64W.

2.2 Site History

An excavation to remove the produced water vault from the Shable USX AB 11-04P location during the site's abandonment was overseen by Fremont Environmental Inc. (Fremont) in November 2020. Soil samples were collected from the north, south, east, and west sidewalls and a floor of the water vault excavation. Inorganic soil concentrations

above the Colorado Oil and Gas Conservation Commission's (COGCC's) Table 910-1 standards were identified during lab analysis of the soil and remain in the subsurface at a depth between one to three feet. As a result, a site investigation to determine the extent of inorganic soil concentrations exceeding the Table 910-1 standards was required. No soil was removed during the site abandonment activities.

3.0 SITE INVESTIGATION ACTIVITIES

3.1 Soil Borings

A site investigation was conducted at the facility between November 13, 2020 and January 4, 2021. A total of nine soil borings were advanced and sampled at one-, three- and five-foot intervals utilizing a hand auger. These borings were immediately backfilled after sampling. Soil borings were used to delineate the extent of inorganic soil concentrations exceeding the Table 910-1 standards at the site. The locations of the soil borings are illustrated on the attached figures.

Generally, the subsurface consists of six inches of road base which is then underlain by a low to medium plasticity, calcareous, moist, clay that extends to a depth of approximately three feet. The maximum depth of the borings was three feet. Groundwater was not present in the sampled interval throughout the course of this investigation. Soil samples from each of the borings were evaluated in the field using a photoionization detector (PID).

Soil samples were collected from each of the borings and sent to Summit Scientific, Inc. in Golden, Colorado for the inorganic analyses of specific conductance (EC), pH and sodium absorption ratio (SAR).

Inorganic soil impacts were observed in seven of the nine soil borings above the COGCC's Table 910-1 standard for specific conductance (EC). The soil chemistry is presented on Figure 3 and summarized on Table 1. The laboratory's report is provided in Appendix A.

4.0 DISCUSSION

A site investigation was conducted at the Shable USX AB 11-04P tank battery between November 13, 2020 and January 4, 2021 in response to inorganic soil concentrations, above the COGCC's Table 910-1 standard for specific conductance (EC), identified after the removal of the site's produced water vault. Nine soil borings were advanced at the location to delineate the magnitude and extent of inorganic soil impacts.

Inorganic soil impacts above the COGCC Table 910-1 standards were observed in seven of nine soil borings. No soil was removed from the site during the produced water vault excavation and location abandonment.

The data collected from the soil borings indicate elevated concentrations of EC exist in the subsurface at a depth of one to three feet in samples collected both on and off location. The EC concentrations in the soil samples from seven of nine soil borings were greater than the COGCC Table 910-1 standards. These data are illustrated on Figure 3.

Background composite samples were collected off-pad, in native, undisturbed soil, to the north, east, and west to establish a baseline for native soil conditions with proximity to the storage tanks formerly located on site. Concentrations of EC in the off-pad samples (SS-08 and SS-09) exceeded the COGCC Table 910-1 standards in the one-to-three-foot interval below ground surface. The soil within this interval is characterized as low to

medium plasticity, moist, calcareous, clay. These properties naturally correlate with medium to high electrical conductivity in soils. Elevated concentrations of EC are consistent with calcareous soils pervasive throughout the disturbed and undisturbed areas across the Shable USX AB 11-04P location and surrounding area. This suggests that elevated EC in the undisturbed soils offsite is indicative of naturally occurring soil conditions on site; therefore, no further delineation is required.

5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



3/15/21

Date _____

Ethan D. Black

Geologist

Reviewed by:



3/15/21

Date _____

Paul V. Henehan, P.E.

Senior Consultant

TABLES

DRAFT

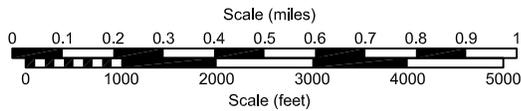
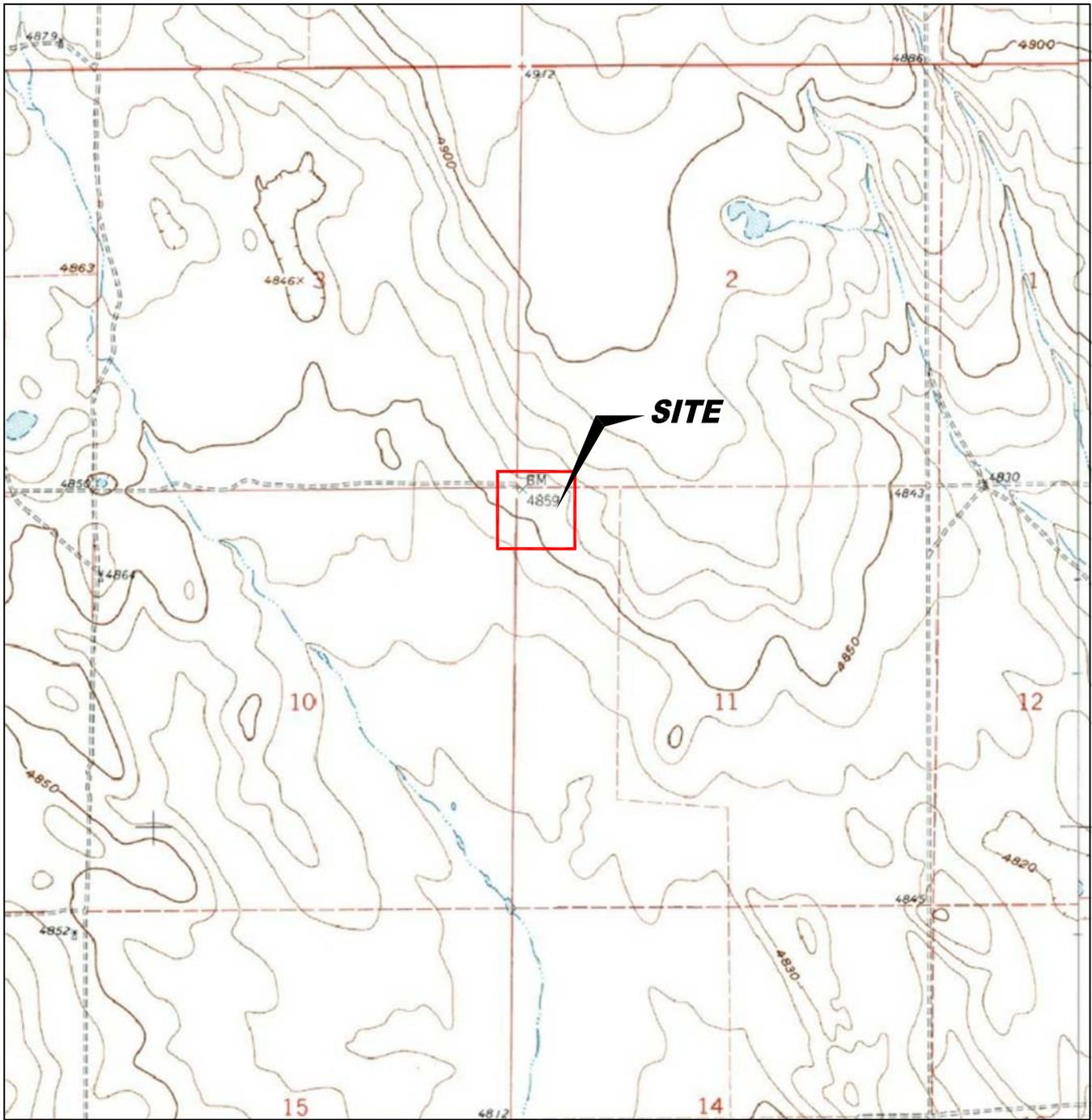
TABLE 1
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
SHABLE USX AB 11-04P, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C020-084

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units
SS-1 1Ft	11/13/2020	1	5.66	7.72	1.12
SS-1 2Ft	11/13/2020	2	5.36	7.71	0.667
SS-1 3Ft	11/13/2020	3	5.44	7.72	0.474
SS-2 1Ft	11/13/2020	1	16.2	7.85	1.42
SS-2 2Ft	11/13/2020	2	12.9	8.13	4.17
SS-2 3Ft	11/13/2020	3	11.7	7.75	4.7
SS-3 1Ft	11/13/2020	1	2.61	8.05	2.95
SS-3 2Ft	11/13/2020	2	6.78	7.69	2.85
SS-3 3Ft	11/13/2020	3	2.18	7.79	3.14
SS-4 1Ft	11/13/2020	1	0.488	8.37	0.119
SS-4 2Ft	11/13/2020	2	1.18	8.23	2.01
SS-4 3Ft	11/13/2020	3	1.33	8.18	1.84
SS-5 1Ft	11/13/2020	1	7.86	7.87	2.7
SS-5 2Ft	11/13/2020	2	14.2	8.05	1.81
SS-5 3Ft	11/13/2020	3	8.07	8.1	4.84
SS-06 Composite	1/4/2021	Composite	4.01	7.87	1.34
SS-07 Composite	1/4/2021	Composite	1.47	8.06	1.63
SS-08 Composite	1/4/2021	Composite	8.12	8.01	3.31
SS-09 Composite	1/4/2021	Composite	8.47	7.79	3.97
Table 910-1 Limits			4	6-9	12

Bold face values exceed the COGCC Limits

FIGURES

DRAFT



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC. ~ SHABLE USX AB 11-04P
 NWNW Sec. 11, T7N, R64W ~ 40.593559°, -104.52351°
 Weld County, Colorado

Project No. CO20-084	Prepared by	Drawn by TA
Date 1/15/21	Reviewed by EB	Filename 20084T





LEGEND

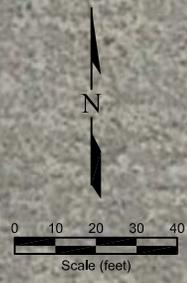
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY
-  FENCE LINE
-  CONTAINMENT BERM
-  CONTAINMENT WALL

**Figure 2
SITE PLAN**

NOBLE ENERGY, INC. ~ SHABLE USX AB 11-04P
 NWNW Sec. 11, T7N, R64W ~ 40.593559°, -104.52351°
 Weld County, Colorado

Project No. CO20-084	Prepared by	Drawn by TA
Date 1/25/2021	Reviewed by EB	Filename 20084Q





LEGEND

- SOIL SAMPLE LOCATION
 - ABOVE GROUND STORAGE TANK
 - FORMER FACILITY
 - FENCE LINE
 - CONTAINMENT BERM
 - CONTAINMENT WALL
- | | |
|-------------------|-----------------------------------|
| SS-1 @ 1' | SAMPLE ID & DEPTH (ft) |
| 11/13/2020 | DATE SAMPLED |
| EC 5.66 | EC mmhos/cm |
| pH 7.72 | pH UNITS |
| SAR 1.12 | SAR UNITS |

Figure 3
INORGANIC SOIL CHEMISTRY MAP
November 13, 2020

NOBLE ENERGY, INC. ~ SHABLE USX AB 11-04P
 NWNW Sec. 11, T7N, R64W ~ 40.593559°, -104.52351°
 Weld County, Colorado

Project No. CO20-084	Prepared by TA	Drawn by TA	
Date 1/25/2021	Reviewed by EB	Filename 20084Q	

APPENDIX A

LABORATORY DOCUMENTATION

DRAFT

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 19, 2020

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Shable USX AB 11-04P

Work Order #2011172

Enclosed are the results of analyses for samples received by Summit Scientific on 11/13/20 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01 1FT	2011172-01	Soil	11/13/20 00:00	11/13/20 16:00
SS-01 2FT	2011172-02	Soil	11/13/20 00:00	11/13/20 16:00
SS-01 3FT	2011172-03	Soil	11/13/20 00:00	11/13/20 16:00
SS-02 1FT	2011172-04	Soil	11/13/20 00:00	11/13/20 16:00
SS-02 2FT	2011172-05	Soil	11/13/20 00:00	11/13/20 16:00
SS-02 3FT	2011172-06	Soil	11/13/20 00:00	11/13/20 16:00
SS-03 1FT	2011172-07	Soil	11/13/20 00:00	11/13/20 16:00
SS-03 2FT	2011172-08	Soil	11/13/20 00:00	11/13/20 16:00
SS-03 3FT	2011172-09	Soil	11/13/20 00:00	11/13/20 16:00
SS-04 1FT	2011172-10	Soil	11/13/20 00:00	11/13/20 16:00
SS-04 2FT	2011172-11	Soil	11/13/20 00:00	11/13/20 16:00
SS-04 3FT	2011172-12	Soil	11/13/20 00:00	11/13/20 16:00
SS-05 1FT	2011172-13	Soil	11/13/20 00:00	11/13/20 16:00
SS-05 2FT	2011172-14	Soil	11/13/20 00:00	11/13/20 16:00
SS-05 3FT	2011172-15	Soil	11/13/20 00:00	11/13/20 16:00

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

2011172.1

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

Page 1 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

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

City/State/Zip: Wellington, CO 80549

Bill to: Jacob

Phone: 303-956-8714

Project Name: Noble - Shable USX AB 11-04P

Sampler Name: Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	SAR	EC	pH	
1	SS-01 1FT	11/13/20		1			X			X							X	X	X	
2	SS-01 2FT			1																
3	SS-01 3FT			1																
4	SS-02 1FT			1																
5	SS-02 2FT			1																
6	SS-02 3FT			1																
7	SS-03 1FT			1																
8	SS-03 2FT			1																
9	SS-03 3FT			1																
10	SS-04 1FT			1																

Relinquished by: <i>Ethan Black</i>	Date/Time: 11/13/20 1600	Received by: <i>[Signature]</i>	Date/Time: 11/13/20 1600	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>3.9</u> Samples Intact: Yes No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Summit Scientific

S₂

2011172.2

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

Page 2 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

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

City/State/Zip: Wellington, CO 80549

Bill to: Noble - Jacob

Phone: 303-956-8714

Project Name: Noble-Shable USX AB11-04P

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	BTEX	Naphthalene	GRO	DRO	SAR		EC	pH
1	SS-04 2FT	11/13/20		1			X			X							X	X	X	
2	SS-04 3FT	I		1																
3	SS-05 1FT	I		1																
4	SS-05 2FT	I		1																
5	SS-05 3FT	I		1																
6																				
7																				
8																				
9																				
10																				

Relinquished by: <i>Paul Henehan</i>	Date/Time: 11/13/20 1600	Received by: <i>[Signature]</i>	Date/Time: 11/13/20 1600	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>3.9</u> Samples Intact: <input checked="" type="radio"/> Yes No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2011172

Client: FREMONT ENVIRONMENTAL Client Project ID: NOBLE-SHABLE USX

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: AB 11 - 04 P

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

Temp (°C)	3.9
-----------	-----

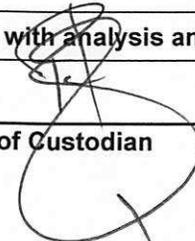
Thermometer ID: 61857155-K

	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 provided that there is evidence that cooling has begun.	✓			
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, ect			✓	
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.

RZ
Custodian Printed Name or Initials


Signature of Custodian

11/13/20
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

SS-01 1FT
2011172-01 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2040	11.9	mg/kg dry	1	BDK0183	11/17/20	11/18/20	EPA 6020B	
Magnesium	427	5.95	"	"	"	"	"	"	
Sodium	214	5.95	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.12	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.1		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	7.72		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	5.66	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

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 - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/19/20 11:38

SS-01 2FT
2011172-02 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	5400	12.4	mg/kg dry	1	BDK0183	11/17/20	11/18/20	EPA 6020B	
Magnesium	984	6.22	"	"	"	"	"	"	
Sodium	203	6.22	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.667	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	80.4		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	7.71		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	5.36	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/19/20 11:38

SS-01 3FT
2011172-03 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	4420	12.2	mg/kg dry	1	BDK0183	11/17/20	11/18/20	EPA 6020B	
Magnesium	785	6.09	"	"	"	"	"	"	
Sodium	130	6.09	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.474	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	82.2		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	7.72		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	5.44	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

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 - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/19/20 11:38

SS-02 1FT
2011172-04 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	23000	12.8	mg/kg dry	1	BDK0183	11/17/20	11/18/20	EPA 6020B	
Magnesium	1540	6.40	"	"	"	"	"	"	
Sodium	823	6.40	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.42	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	78.2		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	7.85		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	16.2	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

SS-02 2FT
2011172-05 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	4270	12.7	mg/kg dry	1	BDK0183	11/17/20	11/18/20	EPA 6020B	
Magnesium	2080	6.35	"	"	"	"	"	"	
Sodium	1330	6.35	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.17	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	78.8		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	8.13		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	12.9	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

SS-02 3FT
2011172-06 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	3010	12.0	mg/kg dry	1	BDK0183	11/17/20	11/18/20	EPA 6020B	
Magnesium	1320	6.02	"	"	"	"	"	"	
Sodium	1230	6.02	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.70	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	83.0		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	7.75		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	11.7	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/19/20 11:38

SS-03 1FT
2011172-07 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1430	12.0	mg/kg dry	1	BDK0183	11/17/20	11/18/20	EPA 6020B	
Magnesium	786	5.99	"	"	"	"	"	"	
Sodium	559	5.99	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.95	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	83.5		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	8.05		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.61	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

SS-03 2FT
2011172-08 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	4190	12.4	mg/kg dry	1	BDK0183	11/17/20	11/18/20	EPA 6020B	
Magnesium	969	6.18	"	"	"	"	"	"	
Sodium	786	6.18	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.85	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	80.8		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	7.69		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	6.78	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/19/20 11:38

SS-03 3FT
2011172-09 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1470	12.2	mg/kg dry	1	BDK0183	11/17/20	11/18/20	EPA 6020B	
Magnesium	840	6.12	"	"	"	"	"	"	
Sodium	609	6.12	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.14	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.7		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	7.79		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.18	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/19/20 11:38

SS-04 1FT
2011172-10 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2360	11.8	mg/kg dry	1	BDK0183	11/17/20	11/18/20	EPA 6020B	
Magnesium	439	5.88	"	"	"	"	"	"	
Sodium	23.9	5.88	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.119	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.0		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	8.37		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.488	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

SS-04 2FT
2011172-11 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1450	12.8	mg/kg dry	1	BDK0212	11/18/20	11/18/20	EPA 6020B	
Magnesium	640	6.38	"	"	"	"	"	"	
Sodium	366	6.38	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.01	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	78.4		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	8.23		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.18	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

SS-04 3FT
2011172-12 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2020	12.7	mg/kg dry	1	BDK0212	11/18/20	11/18/20	EPA 6020B	
Magnesium	637	6.35	"	"	"	"	"	"	
Sodium	370	6.35	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.84	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	78.7		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	8.18		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.33	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

SS-05 1FT
2011172-13 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	4860	12.0	mg/kg dry	1	BDK0212	11/18/20	11/18/20	EPA 6020B	
Magnesium	979	5.99	"	"	"	"	"	"	
Sodium	790	5.99	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.70	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	83.4		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	7.87		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	7.68	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/19/20 11:38

SS-05 2FT
2011172-14 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	12100	12.2	mg/kg dry	1	BDK0212	11/18/20	11/18/20	EPA 6020B	
Magnesium	1760	6.09	"	"	"	"	"	"	
Sodium	807	6.09	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.81	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	82.1		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	8.05		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	14.2	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

SS-05 3FT
2011172-15 (Soil)

Summit Scientific

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

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1710	12.5	mg/kg dry	1	BDK0212	11/18/20	11/18/20	EPA 6020B	
Magnesium	1510	6.26	"	"	"	"	"	"	
Sodium	1140	6.26	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.84	0.100	units	1	BDK0244	11/19/20	11/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	79.9		%	1	BDK0199	11/18/20	11/18/20	Calculation	
pH	8.10		pH Units	"	BDK0200	11/18/20	11/18/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **11/13/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	8.07	0.0100	mmhos/cm	1	BDK0201	11/18/20	11/18/20	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

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

Summit Scientific

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

Batch BDK0183 - General Preparation

Blank (BDK0183-BLK1)

Prepared: 11/17/20 Analyzed: 11/18/20

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

LCS (BDK0183-BS1)

Prepared: 11/17/20 Analyzed: 11/18/20

Calcium	565	10.0	mg/kg wet	500		113	70-130		
Magnesium	652	5.00	"	500		130	70-130		
Sodium	571	5.00	"	500		114	70-130		

Duplicate (BDK0183-DUP1)

Source: 2011171-01

Prepared: 11/17/20 Analyzed: 11/18/20

Calcium	21700	13.2	mg/kg dry		21700			0.175	20
Magnesium	2730	6.62	"		2630			3.81	20
Sodium	1500	6.62	"		1420			5.84	20

Matrix Spike (BDK0183-MS1)

Source: 2011171-01

Prepared: 11/17/20 Analyzed: 11/18/20

Calcium	22200	13.2	mg/kg dry	662	21700	76.2	70-130		
Magnesium	3320	6.62	"	662	2630	105	70-130		
Sodium	2140	6.62	"	662	1420	110	70-130		

Matrix Spike Dup (BDK0183-MSD1)

Source: 2011171-01

Prepared: 11/17/20 Analyzed: 11/18/20

Calcium	22200	13.2	mg/kg dry	662	21700	71.9	70-130	0.125	25
Magnesium	3250	6.62	"	662	2630	93.6	70-130	2.25	25
Sodium	2130	6.62	"	662	1420	108	70-130	0.514	25

Batch BDK0212 - General Preparation

Blank (BDK0212-BLK1)

Prepared & Analyzed: 11/18/20

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/19/20 11:38

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

Summit Scientific

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

Batch BDK0212 - General Preparation

LCS (BDK0212-BS1)

Prepared & Analyzed: 11/18/20

Calcium	532	10.0	mg/kg wet	500		106	70-130			
Magnesium	589	5.00	"	500		118	70-130			
Sodium	519	5.00	"	500		104	70-130			

Duplicate (BDK0212-DUP1)

Source: 2011172-11

Prepared & Analyzed: 11/18/20

Calcium	1340	12.8	mg/kg dry	638	1450	71.3	70-130	0.292	25
Magnesium	623	6.38	"	638	640	74.7	70-130	0.607	25
Sodium	402	6.38	"	638	366	95.3	70-130	0.180	25

Matrix Spike (BDK0212-MS1)

Source: 2011172-11

Prepared & Analyzed: 11/18/20

Calcium	1900	12.8	mg/kg dry	638	1450	71.3	70-130	0.292	25
Magnesium	1120	6.38	"	638	640	74.7	70-130	0.607	25
Sodium	972	6.38	"	638	366	95.3	70-130	0.180	25

Matrix Spike Dup (BDK0212-MSD1)

Source: 2011172-11

Prepared & Analyzed: 11/18/20

Calcium	1910	12.8	mg/kg dry	638	1450	72.2	70-130	0.292	25
Magnesium	1120	6.38	"	638	640	74.7	70-130	0.607	25
Sodium	974	6.38	"	638	366	95.3	70-130	0.180	25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/19/20 11:38

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

Summit Scientific

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

Batch BDK0199 - General Preparation

Duplicate (BDK0199-DUP2)		Source: 2011171-01			Prepared & Analyzed: 11/18/20						
% Solids	75.6		%		75.5				0.138	20	

Batch BDK0200 - General Preparation

LCS (BDK0200-BS1)		Prepared & Analyzed: 11/18/20									
pH	9.31		pH Units	9.21		101	95-105				
Duplicate (BDK0200-DUP1)		Source: 2011172-01			Prepared & Analyzed: 11/18/20						
pH	7.73		pH Units	7.72					0.129	20	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/19/20 11:38

Specific Conductance by EPA Method 120.1 - Quality Control

Summit Scientific

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

Batch BDK0201 - General Preparation

Blank (BDK0201-BLK1)

Prepared & Analyzed: 11/18/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BDK0201-BS1)

Prepared & Analyzed: 11/18/20

Specific Conductance (EC) 0.808 0.0100 mmhos/cm 0.750 108 90-110

Duplicate (BDK0201-DUP1)

Source: 2011172-01

Prepared & Analyzed: 11/18/20

Specific Conductance (EC) 5.68 0.0100 mmhos/cm 5.66 0.176 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/19/20 11:38

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 11, 2021

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Shable USX AB 11-04P

Work Order #2101027

Enclosed are the results of analyses for samples received by Summit Scientific on 01/05/21 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/11/21 16:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-06	2101027-01	Soil	01/04/21 00:00	01/05/21 16:45
SB-07	2101027-02	Soil	01/04/21 00:00	01/05/21 16:45
SB-08	2101027-03	Soil	01/04/21 00:00	01/05/21 16:45
SB-09	2101027-04	Soil	01/04/21 00:00	01/05/21 16:45

Summit Scientific

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2101027

Summit Scientific

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-Shable USX AB 11-04P

Sampler Name: Block

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	SAR	EC	pH	
1	SB-06	4/21		1			X			X							X	X	X	
2	SB-07	I		I						I							I	I	I	
3	SB-08																			
4	SB-09	I		I						I							I	I	I	
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <i>Ethan Black</i>	Date/Time: 1/5/21 1645	Received by: <i>[Signature]</i>	Date/Time: 1-5-21 16:45	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: 10.2 Samples Intact: <input checked="" type="radio"/> Yes No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2101027

Client: FREMONT ENV. Client Project ID: NOBLE-SHABLE USX AB 11-04P

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

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

Temp (°C)	<u>10.2</u>
-----------	-------------

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 provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
Were all samples received intact ⁽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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽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"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽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.

Mucip.
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

1-5-21
Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/11/21 16:01

SB-06
2101027-01 (Soil)

Summit Scientific

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

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	3620	10.8	mg/kg dry	1	BEA0045	01/06/21	01/07/21	EPA 6020B	
Magnesium	422	5.40	"	"	"	"	"	"	
Sodium	320	5.40	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.34	0.100	units	1	BEA0063	01/07/21	01/07/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	92.7		%	1	BEA0053	01/07/21	01/07/21	Calculation	
pH	7.87		pH Units	"	BEA0054	01/07/21	01/07/21	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	4.01	0.0100	mmhos/cm	1	BEA0055	01/07/21	01/07/21	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/11/21 16:01

SB-07
2101027-02 (Soil)

Summit Scientific

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

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1550	11.2	mg/kg dry	1	BEA0045	01/06/21	01/07/21	EPA 6020B	
Magnesium	338	5.58	"	"	"	"	"	"	
Sodium	272	5.58	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.63	0.100	units	1	BEA0063	01/07/21	01/07/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.5		%	1	BEA0053	01/07/21	01/07/21	Calculation	
pH	8.06		pH Units	"	BEA0054	01/07/21	01/07/21	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.47	0.0100	mmhos/cm	1	BEA0055	01/07/21	01/07/21	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/11/21 16:01

SB-08
2101027-03 (Soil)

Summit Scientific

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

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1900	11.8	mg/kg dry	1	BEA0045	01/06/21	01/07/21	EPA 6020B	
Magnesium	850	5.90	"	"	"	"	"	"	
Sodium	691	5.90	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.31	0.100	units	1	BEA0063	01/07/21	01/07/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.7		%	1	BEA0053	01/07/21	01/07/21	Calculation	
pH	8.01		pH Units	"	BEA0054	01/07/21	01/07/21	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	8.12	0.0100	mmhos/cm	1	BEA0055	01/07/21	01/07/21	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/11/21 16:01

SB-09
2101027-04 (Soil)

Summit Scientific

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

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2380	11.5	mg/kg dry	1	BEA0045	01/06/21	01/07/21	EPA 6020B	
Magnesium	1070	5.77	"	"	"	"	"	"	
Sodium	929	5.77	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.97	0.100	units	1	BEA0063	01/07/21	01/07/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.6		%	1	BEA0053	01/07/21	01/07/21	Calculation	
pH	7.79		pH Units	"	BEA0054	01/07/21	01/07/21	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **01/04/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	8.47	0.0100	mmhos/cm	1	BEA0055	01/07/21	01/07/21	EPA 120.1	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/11/21 16:01

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

Summit Scientific

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

Batch BEA0045 - General Preparation

Blank (BEA0045-BLK1)

Prepared & Analyzed: 01/06/21

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

LCS (BEA0045-BS1)

Prepared & Analyzed: 01/06/21

Calcium	571	10.0	mg/kg wet	500		114	70-130			
Magnesium	617	5.00	"	500		123	70-130			
Sodium	616	5.00	"	500		123	70-130			

Duplicate (BEA0045-DUP1)

Source: 2101019-01

Prepared & Analyzed: 01/06/21

Calcium	5690	12.6	mg/kg dry		6230			9.03	20	
Magnesium	883	6.28	"		931			5.28	20	
Sodium	272	6.28	"		320			15.9	20	

Matrix Spike (BEA0045-MS1)

Source: 2101019-01

Prepared & Analyzed: 01/06/21

Calcium	6940	12.6	mg/kg dry	628	6230	114	70-130			
Magnesium	1650	6.28	"	628	931	114	70-130			
Sodium	956	6.28	"	628	320	101	70-130			

Matrix Spike Dup (BEA0045-MSD1)

Source: 2101019-01

Prepared & Analyzed: 01/06/21

Calcium	6940	12.6	mg/kg dry	628	6230	113	70-130	0.0491	25	
Magnesium	1710	6.28	"	628	931	124	70-130	3.53	25	
Sodium	1020	6.28	"	628	320	112	70-130	6.64	25	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/11/21 16:01

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

Summit Scientific

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

Batch BEA0053 - General Preparation

Duplicate (BEA0053-DUP1)		Source: 2101020-01			Prepared & Analyzed: 01/07/21					
% Solids	89.7		%		89.7			0.00		20

Batch BEA0054 - General Preparation

LCS (BEA0054-BS1)		Prepared & Analyzed: 01/07/21								
pH	9.36		pH Units	9.21		102	95-105			
Duplicate (BEA0054-DUP1)		Source: 2101009-01			Prepared & Analyzed: 01/07/21					
pH	8.46		pH Units	8.43			0.355			20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/11/21 16:01

Specific Conductance by EPA Method 120.1 - Quality Control
Summit Scientific

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

Batch BEA0055 - General Preparation

Blank (BEA0055-BLK1)

Prepared & Analyzed: 01/07/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEA0055-BS1)

Prepared & Analyzed: 01/07/21

Specific Conductance (EC) 0.812 0.0100 mmhos/cm 0.750 108 90-110

Duplicate (BEA0055-DUP1)

Source: 2101009-01

Prepared & Analyzed: 01/07/21

Specific Conductance (EC) 0.784 0.0100 mmhos/cm 0.800 1.89 20

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Shable USX AB 11-04P

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/11/21 16:01

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