

# **FREMONT ENVIRONMENTAL INC.**

January 18, 2024

Mr. Daniel Peterson  
Noble Energy Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, CO 80634

Subject:           **Flowline Closure Data Submittal**  
Shable USX AB11-14P  
API # 05-123-31314  
SESW Sec. 11, T7N, R64W  
Weld County, Colorado  
Fremont Project No. C024-003  
Facility ID #416247, Remediation #30816

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Flowline Closure activities for the Noble Energy Inc. (Noble) Shable USX AB11-14P. Impacted soil was encountered during abandonment activities. Details of the Shable USX AB11-14P flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

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)**

# Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure	Wellhead Closure	Pit Closure	Partially Buried Vault Closure
Site Name & COGCC Facility Number: <small>Shable USX T7N-R64W-S11 L04 Facility: 417954</small>		Date: 01/04/2024-01/08/2024			Remediation Project #: 30816
Associated Wells: <small>Shable USX AB11-14P Facility ID: 416247 API: 05-123-31314</small>		Age of Site: 2010			Number of Photos Attached: 21 Photos

Starting point: (GPS coordinates and descriptions) 40.5822935, -104.5189506

End point: (GPS coordinates and descriptions) 40.5863467, -104.5255946

USCS Soil Type: SC & SW Estimated Depth to Groundwater: N/A

**Hydrocarbon Impacted Soils / Spills:** (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
An exceedance in TPHs (GRO - 0.96mg/kg, DRO - 460mg/kg, ORO - 110mg/kg), Benzo (a) Anthracene (0.0185mg/kg), 1-Methylnaphthalene (0.0666mg/kg) and 2-Methylnaphthalene (0.0612mg/kg) was discovered at the wellhead tie-in sample location (14FL01@4.5'). Refer to the volatile organic soil chemistry table (Table 1) and the polycyclic aromatic hydrocarbon soil chemistry table (Table 2) for reference

**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	Roughly 3-4ft						
Age	2010						
Length	2,400ft						
Construction Material	BLK Non-ACM/ GRN FBE						
Were flowlines pulled?	Partially						
Visual Integrity of lines	No Damage						
Visual impacts if trenched	N/A						
PID Readings if trenched	N/A						
Sample taken? Location/Sample ID#	14FL01@4.5' 14FL09@5.0' 14FL11@4.0' 14FL14@6.0' 14FL15@5.0'						
Photo Number(s)	Photo 1A-10 & 2A-2F						

**Other observations regarding on location flowlines:** 2,110 feet of flowline was removed from wellhead tie-in (14FL01@4.5') to sample location 14FL12@4.0', 125 feet of flowline was cut, capped and abandoned-in-place from sample location 14FL12@4.0' to sample location 14FL13@4.0', and 165 feet of flowline was removed from sample location 14FL13@4.0' to the separator tie-in (14FL15@5.0') sample location. A material change from BLK Non-ACM TGF to Green FBE Epoxy was discovered at sample locations 14FL09@5.0' and 14FL14@6.0'. Exceedances in pH (14FL09@5.0', 14FL11@4.0', 14FL14@6.0'), SAR (14FL14@6.0'), Arsenic (All Samples), Barium (14FL01@4.5', 14FL09@5.0', 14FL14@6.0', 14FL15@5.0'), Cadmium (14FL01@4.5'), Lead (14FL01@4.5', 14FL15@5.0') and Selenium (14FL09@5.0', 14FL14@6.0', 14FL15@5.0') was discovered in multiple samples. Refer to tables 3 and 4 for reference.

### Summary

Was impacted soil identified?		No	Yes - less than 10 cubic yards	Yes - more than 10 cubic yards
Total number of samples field screened: 10 samples		Total number of samples collected: 31 samples		
Highest PID Reading: High @ 59.7ppm (14FL01@4.5')		Total number of samples submitted to lab for analysis: 21 Samples		
If more than 10 cubic yards of impacted soil were observed:				
Vertical extent: 4.5ft		Estimated spill volume: Unknown		
Lateral extent: 4'x10'		Volume of soil removed: None		
Is additional investigation required? Yes				
Was groundwater encountered during the investigation?				
No		Yes - not impacted or in contact with impacted soils		Yes - groundwater impacted and/or in contact with impacted soils
Measured depth to groundwater: N/A		Was remedial groundwater removal conducted? Yes No		
Date Groundwater was encountered: N/A		Commencement date of removal: N/A		
Sheen on groundwater? Yes No		Volume of groundwater removed prior to sampling: N/A		
Free product observed? Yes No		Volume of groundwater removed post sampling: N/A		
Total number of samples collected: N/A		Total Volume of groundwater removed: N/A		
Total number of samples submitted to lab for analysis: N/A				

**TABLE 1**  
**SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**SHABLE USX AB 11-14P, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C024-003**

Sample ID	Sample Date	Depth (ft)	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)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
14FL01@4.5'	1/4/2024	4.5 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<b>0.96</b>	<b>460</b>	<b>110</b>
14FL09@5.0'	1/8/2024	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
14FL11@4.0'	1/8/2024	4.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
14FL14@6.0'	1/8/2024	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
14FL15@5.0'	1/4/2024	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

Green highlighted cells indicate soil removed via excavation

\* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
SHABLE USX AB 11-14P, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C024-003

Sample ID	Sample Date	Depth (ft)	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)	Dibenzo (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)
ECMC 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
ECMC 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
14FL01@4.5'	1/4/2024	4.5 Ft	<0.00500	<0.00500	<b>0.0185</b>	<0.00500	<0.00500	<0.00500	0.00779	<0.00500	0.00565	0.0311	<0.00500	0.00758	<b>0.0666</b>	<b>0.0612</b>
14FL09@5.0'	1/8/2024	5.0 Ft	<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
14FL11@4.0'	1/8/2024	4.0 Ft	<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
14FL14@6.0'	1/8/2024	6.0 Ft	<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
14FL15@5.0'	1/4/2024	5.0 Ft	<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

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Green highlighted cells indicate soil removed via excavation

**TABLE 3**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE ENERGY INC.**  
**SHABLE USX AB 11-14P, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C024-003**

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Max. Background Concentration (or Concentration Range)			9.49	-	7.63	-
14FL01@4.5'	1/4/2024	4.5 Ft	7.74	0.812	3.28	<2.00
14FL09@5.0'	1/8/2024	5.0 Ft	<b>8.67</b>	0.444	5.01	<2.00
14FL11@4.0'	1/8/2024	4.0 Ft	<b>8.72</b>	0.0764	0.175	<2.00
14FL14@6.0'	1/8/2024	6.0 Ft	<b>8.51</b>	0.746	<b>6.09</b>	<2.00
14FL15@5.0'	1/4/2024	5.0 Ft	7.99	0.324	0.131	<2.00
BKG01@6.0"	1/3/2024	0.5 Ft	<b>9.34</b>	0.260	0.974	<2.00
BKG01@4.0'	1/3/2024	4.0 Ft	8.00	1.36	3.71	<2.00
BKG01@6.0'	1/3/2024	6.0 Ft	<b>8.55</b>	0.687	3.84	<2.00
BKG02@6.0"	1/3/2024	0.5 Ft	<b>9.35</b>	0.215	0.661	<2.00
BKG02@4.0'	1/3/2024	4.0 Ft	7.81	2.39	3.09	<2.00
BKG02@6.0'	1/3/2024	6.0 Ft	<b>9.34</b>	0.442	3.26	<2.00
BKG03@6.0"	1/3/2024	0.5 Ft	<b>9.21</b>	0.208	0.652	<2.00
BKG03@4.0'	1/3/2024	4.0 Ft	7.88	0.813	3.40	<2.00
BKG03@6.0'	1/3/2024	6.0 Ft	<b>9.07</b>	0.655	<b>6.75</b>	<2.00
BKG04@6.0"	1/3/2024	0.5 Ft	<b>9.05</b>	0.253	0.834	<2.00
BKG04@4.0'	1/3/2024	4.0 Ft	<b>8.94</b>	0.210	0.725	<2.00
BKG04@6.0'	1/3/2024	6.0 Ft	<b>8.57</b>	0.688	5.12	<2.00
BKG05@6.0"	1/3/2024	0.5 Ft	<b>9.49</b>	0.245	1.09	<2.00
BKG05@4.0'	1/3/2024	4.0 Ft	8.08	3.09	<b>6.34</b>	<2.00
BKG05@6.0'	1/3/2024	6.0 Ft	7.98	1.73	3.44	<2.00
14BKG06@4.5'	1/4/2024	4.5 Ft	<b>8.37</b>	0.830	<b>7.63</b>	<2.00

Bold faced, yellow highlighted values exceed the ECMC Table 915-1 concentrations

Green highlighted cells indicate soil removed via excavation

Orange highlighted cells exceed of the maximum background concentration, or concentration range

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

NA - Not analyzed      Local Background Samples (BKG01, BKG02, BKG03, BKG04, BKG05, BKG06)

**TABLE 4**  
**SUMMARY OF METALS IN SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**SHABLE USX AB 11-14P, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C024-003**

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
125% Max. Background Concentration			4.53	198	0.622	-	-	22.2	-	1.08	-	-
14FL01@4.5'	1/4/2024	4.5 Ft	<b>2.82</b>	<b>261</b>	<b>2.11</b>	<0.30	6.07	<b>26.0</b>	10.3	<0.260	0.115	19.6
14FL09@5.0'	1/8/2024	5.0 Ft	<b>1.04</b>	<b>151</b>	0.254	<0.30	2.68	11.5	2.26	<b>0.344</b>	0.0659	8.98
14FL11@4.0'	1/8/2024	4.0 Ft	<b>0.976</b>	81.4	<0.200	<0.30	1.83	7.86	1.80	<0.260	0.0344	7.35
14FL14@6.0'	1/8/2024	6.0 Ft	<b>1.06</b>	<b>115</b>	0.319	<0.30	3.05	12.3	2.51	<b>0.693</b>	0.0909	10.9
14FL15@5.0'	1/4/2024	5.0 Ft	<b>1.05</b>	<b>126</b>	0.348	<0.30	3.00	<b>14.2</b>	2.63	<b>0.397</b>	0.0893	11.0
BKG01@6.0"	1/3/2024	0.5 Ft	<b>0.908</b>	<b>159</b>	0.283	<0.30	2.61	11.6	2.41	<0.260	0.0931	8.76
BKG01@4.0'	1/3/2024	4.0 Ft	<b>0.932</b>	<b>140</b>	<b>0.494</b>	<0.30	3.34	<b>17.6</b>	2.68	<b>0.866</b>	0.154	11.3
BKG01@6.0'	1/3/2024	6.0 Ft	<b>0.974</b>	<b>87.2</b>	<b>0.487</b>	<0.30	3.65	<b>17.5</b>	2.85	<b>0.427</b>	0.164	12.4
BKG02@6.0"	1/3/2024	0.5 Ft	<b>0.969</b>	<b>134</b>	0.219	<0.30	2.34	9.63	2.24	<0.260	0.0551	8.20
BKG02@4.0'	1/3/2024	4.0 Ft	<b>0.871</b>	<b>147</b>	0.333	<0.30	3.16	<b>14.8</b>	2.17	<b>0.702</b>	0.128	10.7
BKG02@6.0'	1/3/2024	6.0 Ft	<b>0.926</b>	<b>131</b>	<b>0.467</b>	<0.30	3.50	<b>16.0</b>	2.69	<b>0.382</b>	0.147	11.6
BKG03@6.0"	1/3/2024	0.5 Ft	<b>0.974</b>	<b>111</b>	0.232	<0.30	2.30	9.19	2.01	<0.260	0.0611	7.47
BKG03@4.0'	1/3/2024	4.0 Ft	<b>0.972</b>	<b>115</b>	<b>0.460</b>	<0.30	3.39	<b>16.2</b>	2.69	<b>0.720</b>	0.147	11.6
BKG03@6.0'	1/3/2024	6.0 Ft	<b>0.991</b>	<b>138</b>	<b>0.478</b>	<0.30	3.59	<b>17.4</b>	2.66	<b>0.396</b>	0.158	11.9
BKG04@6.0"	1/3/2024	0.5 Ft	<b>1.24</b>	<b>115</b>	0.312	<0.30	2.40	10.2	2.37	<0.260	0.0574	7.67
BKG04@4.0'	1/3/2024	4.0 Ft	<b>1.36</b>	<b>127</b>	<0.200	<0.30	1.46	5.26	1.60	<0.260	<0.0200	5.87
BKG04@6.0'	1/3/2024	6.0 Ft	<b>0.886</b>	<b>131</b>	<b>0.498</b>	<0.30	3.48	<b>17.8</b>	2.68	<b>0.422</b>	0.167	11.9
BKG05@6.0"	1/3/2024	0.5 Ft	<b>0.702</b>	<b>129</b>	0.328	<0.30	2.65	11.9	2.37	<b>0.281</b>	0.101	8.54
BKG05@4.0'	1/3/2024	4.0 Ft	<b>0.640</b>	<b>96.2</b>	0.338	<0.30	1.96	8.82	2.20	<b>0.324</b>	0.0342	7.79
BKG05@6.0'	1/3/2024	6.0 Ft	<b>1.84</b>	20.2	<0.200	<0.30	5.03	13.6	2.31	<b>0.360</b>	0.0665	11.8
14BKG06@4.5'	1/4/2024	4.5 Ft	<b>3.63</b>	30.2	<b>0.449</b>	<0.30	9.82	12.2	5.60	<0.260	0.0790	22.0

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

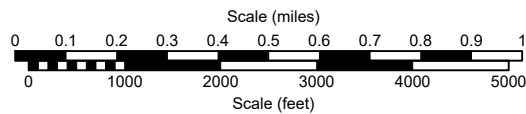
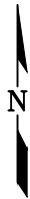
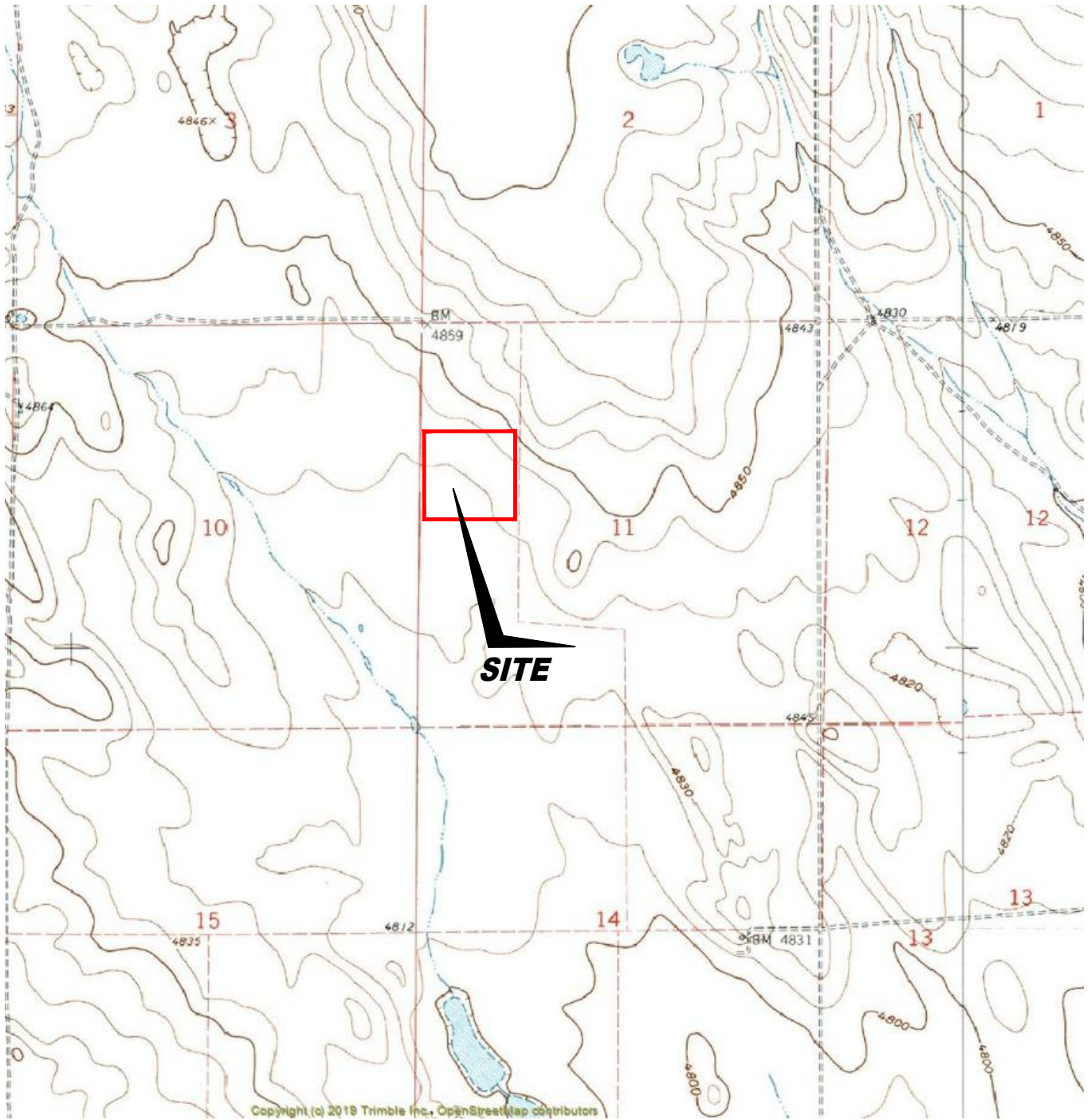
Orange highlighted cells exceed 125% of the maximum background concentration

\* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

NA - Not analyzed

Local Background Samples (BKG01, BKG02, BKG03, BKG04, BKG05, BKG06)



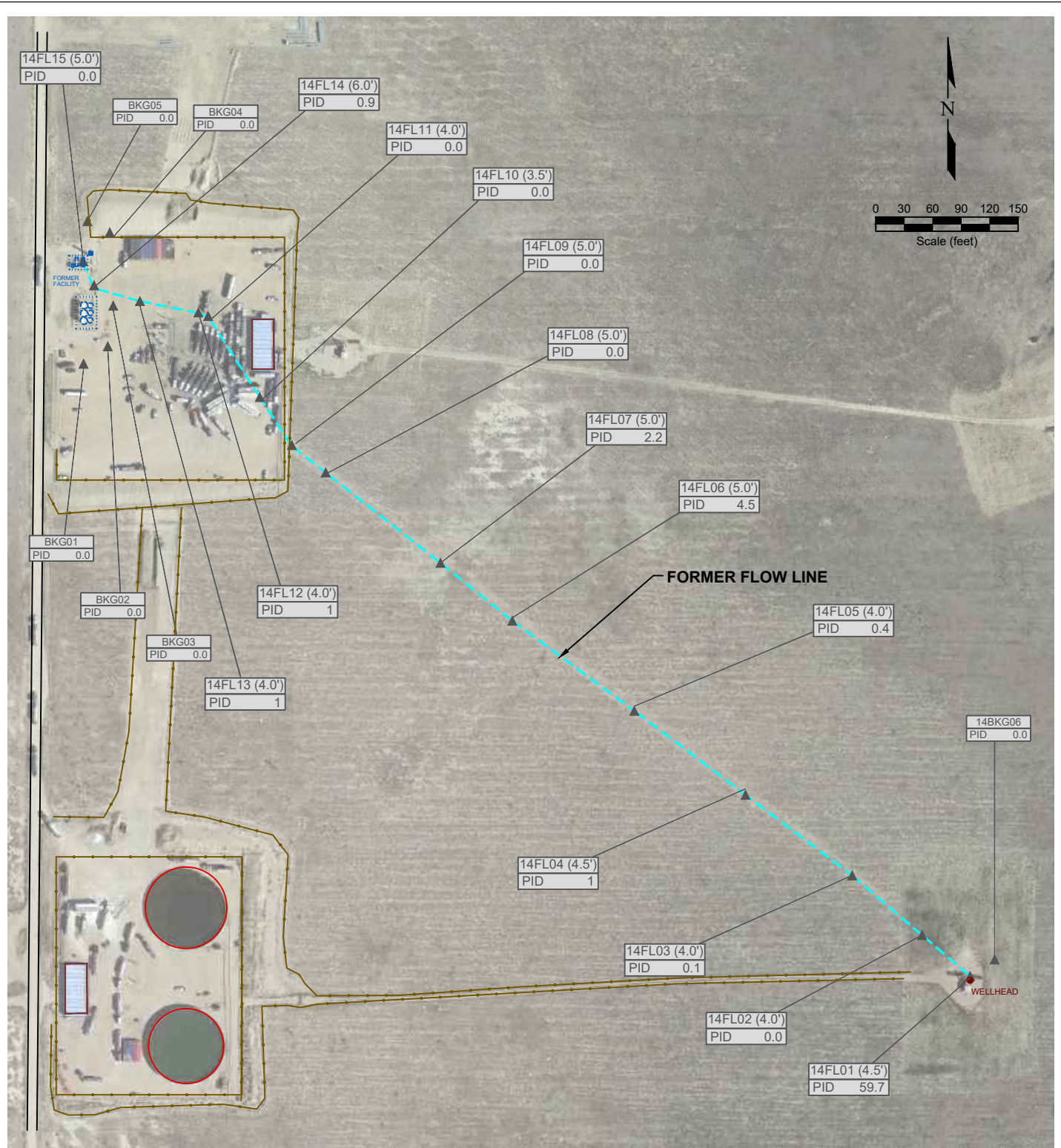
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**Noble Energy, Inc ~ Shable USX AB11-14P**  
 SESW Sec 11, T7N, R64W, 6th P.M.  
 Weld County, Colorado  
 40.582301 °, -104.518975 °

Project No. <b>CO24-003</b>	API # <b>05-123-31314</b>	Facility #
Date <b>4/16/24</b>	Remediation # <b>30816</b>	Filename <b>24003TFL</b>





**LEGEND**

● WELL HEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	— FENCE LINE
▲ PID READING LOCATION	▭ CONCRETE BARRICADES	BUILDING	▬ CONTAINMENT BERM
			▬ CONTAINMENT WALL
			— FORMER FLOW LINE


14BKG06 (4.5')  
PID 0.0

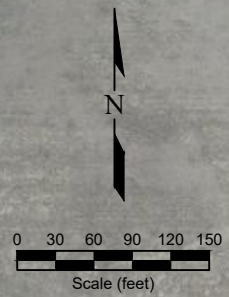
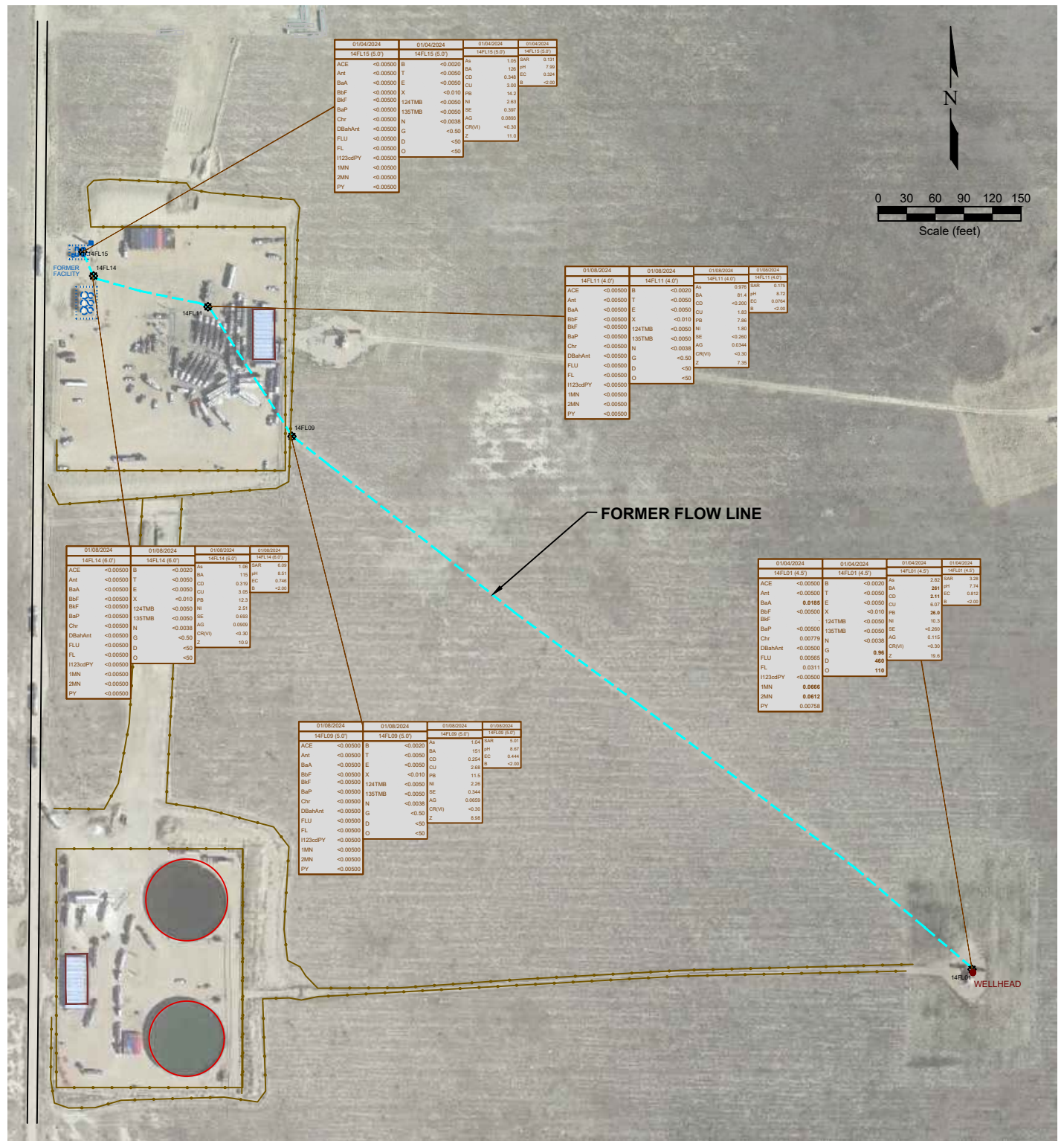
PID READING SAMPLE IDENTIFICATION & DEPTH (ft)  
PHOTO IONIZATION DETECTION / PARTS PER MILLION

**Figure 2  
SITE MAP**

**Noble Energy, Inc ~ Shable USX AB11-14P**  
 SESW Sec 11, T7N, R64W, 6th P.M.  
 Weld County, Colorado  
 40.582301 °, -104.518975 °

Project No. <b>CO24-003</b>	API # <b>05-123-31314</b>	Facility #
Date <b>4/16/24</b>	Remediation # <b>30816</b>	Filename <b>24003QFL</b>





**LEGEND**

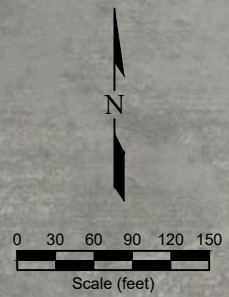
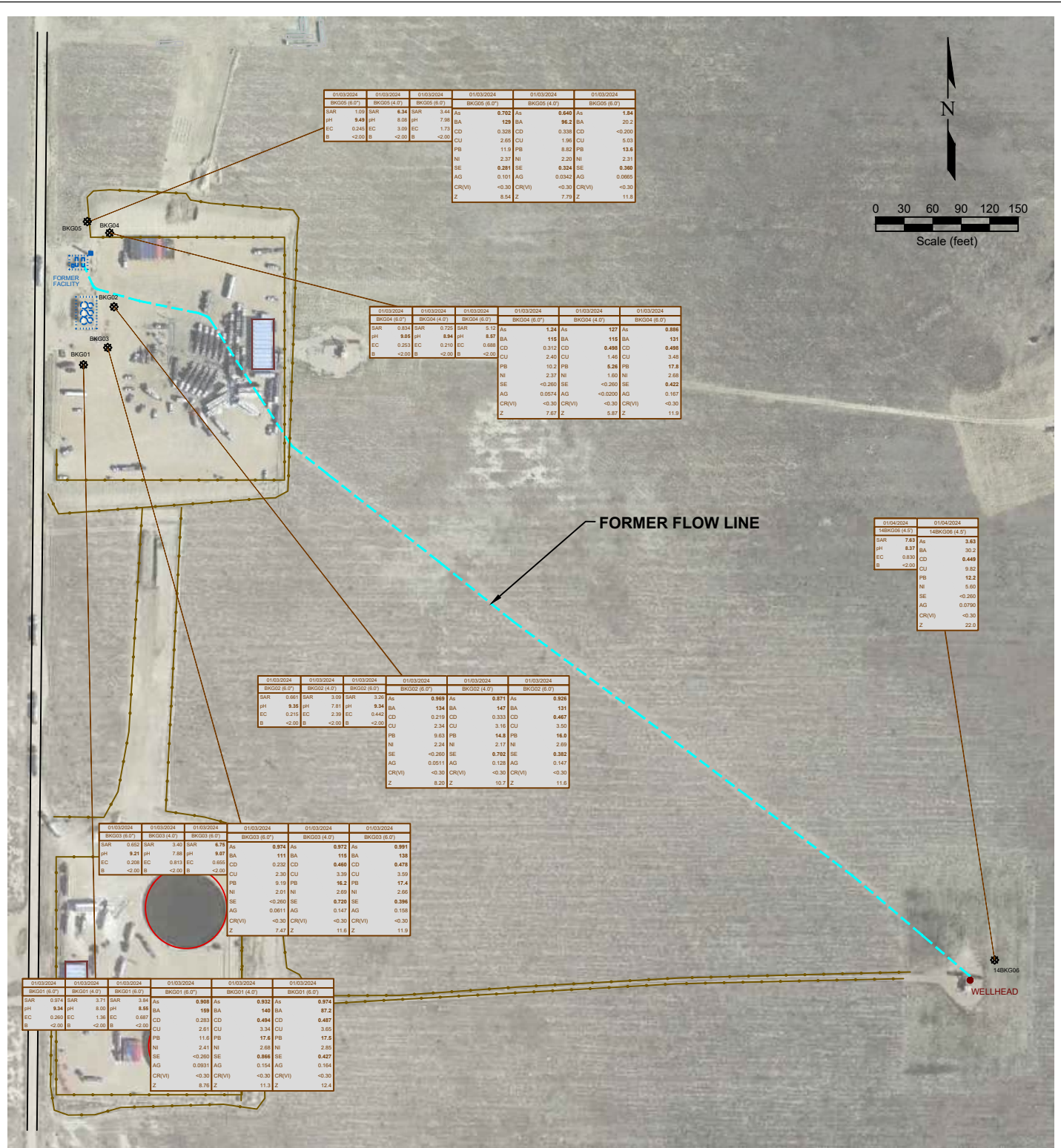
- WELL HEAD LOCATION
- ⊗ SOL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- ▭ FORMER FACILITY
- ▭ CONCRETE BARRICADES
- ▭ BUILDING
- ▭ BUILDING
- ▭ FENCE LINE
- ▭ CONTAINMENT BERM
- ▭ CONTAINMENT WALL
- ▭ FORMER FLOW LINE

01/04/2024	DATE SAMPLED	01/08/2024	DATE SAMPLED	01/08/2024	DATE SAMPLED
AST01 (6.0')	SAMPLE ID and DEPTH (ft)	AST01 (6.0')	SAMPLE ID and DEPTH (ft)	AST01 (6.0')	SAMPLE ID and DEPTH (ft)
ACE	<0.00500	B	<0.00500	As	2.78
Ant	<0.00500	BA	<0.00500	BAR	77.2
BaA	<0.00500	T	<0.00500	BE	4.87
BaP	<0.00500	E	<0.00500	BI	2.58
BbF	<0.00500	X	<0.010	CB	4.97
BkF	<0.00500	124TMB	<0.00500	CD	2.88
Chr	<0.00500	135TMB	<0.00500	CE	4.54
DBahAnt	<0.00500	N	<0.0038	CH	4.54
FLU	<0.00500	G	<0.30	CO	<0.200
FLU	<0.00500	D	<0.30	CR	0.200
H123cdPY	<0.00500	O	<0.30	CS	0.200
MNM	<0.00500	Z	8.88	CU	0.200
ZMN	<0.00500			NI	0.200
PY	<0.00500			SE	0.200
				SI	0.200
				SR	0.200
				TE	0.200
				TR	0.200
				VB	0.200
				VC	0.200
				VD	0.200
				VE	0.200
				VF	0.200
				VG	0.200
				VH	0.200
				VI	0.200
				VJ	0.200
				VK	0.200
				VL	0.200
				VM	0.200
				VN	0.200
				VO	0.200
				VP	0.200
				VQ	0.200
				VR	0.200
				VS	0.200
				VT	0.200
				TV	0.200
				UW	0.200
				UX	0.200
				UY	0.200
				VZ	0.200

**Figure 3  
SOIL CHEMISTRY MAP**

**Noble Energy, Inc ~ Shable USX AB11-14P**  
 SESW Sec 11, T7N, R64W, 6th P.M.  
 Weld County, Colorado  
 40.582301 °, -104.518975 °

Project No. <b>CO24-003</b>	API # <b>05-123-31314</b>	Facility #
Date <b>4/16/24</b>	Remediation # <b>30816</b>	Filename <b>24003QFL</b>



FORMER FLOW LINE

**LEGEND**

● WELL HEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	— FENCE LINE
⊗ SOIL SAMPLE LOCATION	▭ CONCRETE BARRICADES	FORMER FACILITY	▨ CONTAINMENT BERM
	▭ BUILDING	▨ CONTAINMENT WALL	▨ FORMER FLOW LINE

DATE SAMPLED	DATE SAMPLED	DATE SAMPLED	DATE SAMPLED
AST01 (E.0')	AST01 (E.0')	AST01 (E.0')	AST01 (E.0')
SAMPLE ID and DEPTH (ft)	SAMPLE ID and DEPTH (ft)	SAMPLE ID and DEPTH (ft)	SAMPLE ID and DEPTH (ft)
BENZENE (mg/kg)	BENZENE (mg/kg)	BENZENE (mg/kg)	BENZENE (mg/kg)
TOLUENE (mg/kg)	TOLUENE (mg/kg)	TOLUENE (mg/kg)	TOLUENE (mg/kg)
ETHYLBENZENE (mg/kg)	ETHYLBENZENE (mg/kg)	ETHYLBENZENE (mg/kg)	ETHYLBENZENE (mg/kg)
TOTAL XYLENES (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL XYLENES (mg/kg)
1,2,4-TRIMETHYLBENZENE (mg/kg)	1,2,4-TRIMETHYLBENZENE (mg/kg)	1,2,4-TRIMETHYLBENZENE (mg/kg)	1,2,4-TRIMETHYLBENZENE (mg/kg)
1,3,5-TRIMETHYLBENZENE (mg/kg)	1,3,5-TRIMETHYLBENZENE (mg/kg)	1,3,5-TRIMETHYLBENZENE (mg/kg)	1,3,5-TRIMETHYLBENZENE (mg/kg)
NAPHTHALENE (mg/kg)	NAPHTHALENE (mg/kg)	NAPHTHALENE (mg/kg)	NAPHTHALENE (mg/kg)
TPH-GRO (mg/kg)	TPH-GRO (mg/kg)	TPH-GRO (mg/kg)	TPH-GRO (mg/kg)
TPH-DRO (mg/kg)	TPH-DRO (mg/kg)	TPH-DRO (mg/kg)	TPH-DRO (mg/kg)
TPH-ORO (mg/kg)	TPH-ORO (mg/kg)	TPH-ORO (mg/kg)	TPH-ORO (mg/kg)

DATE SAMPLED	DATE SAMPLED	DATE SAMPLED	DATE SAMPLED
AST01 (E.0')	AST01 (E.0')	AST01 (E.0')	AST01 (E.0')
SAMPLE ID and DEPTH (ft)	SAMPLE ID and DEPTH (ft)	SAMPLE ID and DEPTH (ft)	SAMPLE ID and DEPTH (ft)
BENZENE (mg/kg)	BENZENE (mg/kg)	BENZENE (mg/kg)	BENZENE (mg/kg)
TOLUENE (mg/kg)	TOLUENE (mg/kg)	TOLUENE (mg/kg)	TOLUENE (mg/kg)
ETHYLBENZENE (mg/kg)	ETHYLBENZENE (mg/kg)	ETHYLBENZENE (mg/kg)	ETHYLBENZENE (mg/kg)
TOTAL XYLENES (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL XYLENES (mg/kg)
1,2,4-TRIMETHYLBENZENE (mg/kg)	1,2,4-TRIMETHYLBENZENE (mg/kg)	1,2,4-TRIMETHYLBENZENE (mg/kg)	1,2,4-TRIMETHYLBENZENE (mg/kg)
1,3,5-TRIMETHYLBENZENE (mg/kg)	1,3,5-TRIMETHYLBENZENE (mg/kg)	1,3,5-TRIMETHYLBENZENE (mg/kg)	1,3,5-TRIMETHYLBENZENE (mg/kg)
NAPHTHALENE (mg/kg)	NAPHTHALENE (mg/kg)	NAPHTHALENE (mg/kg)	NAPHTHALENE (mg/kg)
TPH-GRO (mg/kg)	TPH-GRO (mg/kg)	TPH-GRO (mg/kg)	TPH-GRO (mg/kg)
TPH-DRO (mg/kg)	TPH-DRO (mg/kg)	TPH-DRO (mg/kg)	TPH-DRO (mg/kg)
TPH-ORO (mg/kg)	TPH-ORO (mg/kg)	TPH-ORO (mg/kg)	TPH-ORO (mg/kg)

**Figure 4**  
**BACKGROUND SAMPLE SOIL CHEMISTRY MAP**

**Noble Energy, Inc ~ Shable USX AB11-14P**  
 SESW Sec 11, T7N, R64W, 6th P.M.  
 Weld County, Colorado  
 40.582301 °, -104.518975 °

Project No. <b>CO24-003</b>	API # <b>05-123-31314</b>	Facility #
Date <b>4/16/24</b>	Remediation # <b>30816</b>	Filename <b>24003QFL</b>

# Photo Log



### *Description:*

#1A - Shable USX AB 11-14P - Wellhead Tie-in - 14FL01@4.5' - Odor Present - No Staining - PID: 59.7ppm

# Photo Log



**Description:**

#1B - Shable USX AB 11-14P - 14FL02@4.0' - No Impacts Noted - PID: 0.0ppm

# Photo Log



**Description:**

#1C - Shable USX AB 11-14P - 14FL03@4.0' - No Impacts Noted - PID: 0.1ppm



**Description:**

#1D - Shable USX AB 11-14P - 14FL04@4.5' - No Impacts Noted - PID: 1.0ppm

# Photo Log



**Description:**

#1E - Shable USX AB 11-14P - 14FL05@4.0' - No Impacts Noted - PID: 0.4ppm

# Photo Log



## ***Description:***

#1F - Shable USX AB 11-14P - 14FL06@5.0' - No Impacts Noted - PID: 4.5ppm



**Description:**

#1G - Shable USX AB 11-14P - 14FL07@5.0' - No Impacts Noted - PID: 2.2ppm



**Description:**

#1H - Shable USX AB 11-14P - 14FL08@5.0' - No Impacts Noted - PID: 0.0ppm

# Photo Log



**Description:**

#11 - Shable USX AB 11-14P - 14FL09@5.0' - Material Change - No Impacts Noted - PID: 0.0ppm

# Photo Log



**Description:**

#1J - Shable USX AB 11-14P - 14FL10@3.5' - No Impacts Noted - PID: 0.0ppm

# Photo Log



**Description:**

#1K - Shable USX AB 11-14P - 14FL11@4.0' - No Impacts Noted - PID: 0.0ppm

# Photo Log



**Description:**

#1L - Shable USX AB 11-14P - 14FL12@4.0' - Cut and Capped - No Impacts Noted - PID: 0.0ppm

# Photo Log



**Description:**

#1M - Shable USX AB 11-14P - 14FL13@4.0' - Cut and Capped - No Impacts Noted - PID: 0.0ppm



**Description:**

#1N - Shable USX AB 11-14P - 14FL14@6.0' - Material Change - No Impacts Noted - PID: 0.9ppm



**Description:**

#10 - Shable USX AB 11-14P - Separator Tie-in - 14FL15@5.0' - No Impacts Noted - PID: 0.0ppm

# Photo Log



**Description:**

#2A - Shable USX AB 11-14P - 1st Local Background Sample Bore - BKG01 - Samples Collected at 0.5ft, 4.0ft and 6.0ft



**Description:**

#2B - Shable USX AB 11-14P - 2nd Local Background Sample Bore - BKG02 - Samples Collected at 0.5ft, 4.0ft and 6.0ft

# Photo Log



**Description:**

#2C - Shable USX AB 11-14P - 3rd Local Background Sample Bore - BKG03 - Samples Collected at 0.5ft, 4.0ft and 6.0ft

# Photo Log



**Description:**

#2D - Shable USX AB 11-14P - 4th Local Background Sample Bore - BKG04 - Samples Collected at 0.5ft, 4.0ft and 6.0ft

# Photo Log



***Description:***

#2E - Shable USX AB 11-14P - 5th Local Background Sample Bore - BKG05 - Samples Collected at 0.5ft, 4.0ft and 6.0ft

# Photo Log



**Description:**

#2F - Shable USX AB 11-14P - 6th Local Background Sample - 14BKG06@4.5' - Sample Collected at 4.5ft

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 18, 2024

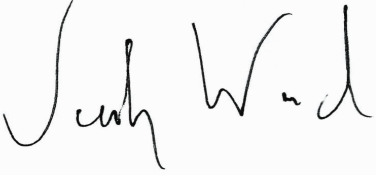
Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Shable USX AB11-14P

Work Order #2401120

Enclosed are the results of analyses for samples received by Summit Scientific on 01/08/24 17:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
14FL01@4.5'	2401120-01	Soil	01/04/24 00:00	01/08/24 17:08
14FL09@5.0'	2401120-02	Soil	01/04/24 00:00	01/08/24 17:08
14FL11@4.0'	2401120-03	Soil	01/04/24 00:00	01/08/24 17:08
14FL14@6.0'	2401120-04	Soil	01/04/24 00:00	01/08/24 17:08
14FL15@5.0'	2401120-05	Soil	01/04/24 00:00	01/08/24 17:08

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.*



4653 Table Mountain Drive  
 Golden, CO 80403  
 303-277-9310

Lab ID	Page <u>1</u> of <u>1</u>
2401120	

Send Data To:		Send Invoice To:
Client: <u>Fremont Env</u>	Project Manager: <u>Paul Henehan</u>	Company: <u>Noble</u>
Address:	E-Mail: <u>Paulh@fremontenv.com</u>	Project Name/Location: <u>Shoble USX AB11-14P</u>
City/State/Zip:	<u>Jeff@fremontenv.com Ethamb@fremontenv.com</u>	AFE#:
Phone:	Project Name: <u>Shoble USX AB11-14P</u>	PO/Billing Codes: <u>VWRWE-A3428-ABN</u>
Sampler Name: <u>JG</u>	Project Number:	Contact:

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 + N	TMBs (915)	DR0, OR0, GR0	PAHs (915)		EC, PH, SAR, Boron	Metals (915)
1	14FL01@4.5'	01/04/24		2			X			X			X	X	X	X	X	X	
2	14FL09@5.0'																		
3	14FL11@4.0'																		
4	14FL14@6.0'	01/08/24																	
5	14FL15@5.0'	01/04/24																	
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>[Signature]</u> Date/Time: <u>01/08/24 1708</u>	Received by: <u>[Signature]</u> Date/Time: <u>1/8/24 17:02</u>	TAT Business Days	Field DO	Notes:  <u>Bill to Noble</u>
		Same Day	Field EC	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	1 Day	Field ORP	
		2 Days	Field pH	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	3 Days	Field Temp.	
Temperature Upon Receipt: <u>10.2</u>	Corrected Temperature _____	Standard <input checked="" type="checkbox"/>	Field Turb.	
	IR gun #: <u>2</u>		HNO3 lot #: _____	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 240120

Client: Fremont Client Project ID: Shale USX AB11-14P

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

[X] [ ] [ ] [ ] [ ]

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

Temp (°C) 10.2 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	X			on ice
If custody seals are present, are they intact? <sup>(1)</sup>			X	
Are samples due within 48 hours present?		X		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			X	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>		X		no sample times
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	X			
Were all samples received intact? <sup>(1)</sup>	X			
Was adequate sample volume provided? <sup>(1)</sup>	X			
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	X			
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	X			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>			X	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.			X	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	

Additional Comments (if any):

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

John W. [Signature]  
Custodian Printed Name

1/8/24 17:08  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL01@4.5'**  
**2401120-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0311	01/09/24	01/12/24	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		"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.96</b>	<b>0.50</b>		"	"	"	"	"	"	

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0370	92.6 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0452	113 %		50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0413	103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>460</b>	50		mg/kg	1	BHA0316	01/09/24	01/10/24	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>110</b>	50		"	"	"	"	"	"	

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	8.53	68.2 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 AB11-14P  
Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL01@4.5'**  
**2401120-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0284	01/09/24	01/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0185</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00779</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.00565</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0311</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00758</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0666</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0612</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0211	63.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0417	01/11/24	01/13/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL01@4.5'**  
**2401120-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.82	0.200	mg/kg dry	1	BHA0381	01/10/24	01/18/24	EPA 6020B	
Barium	261	0.400	"	"	"	"	"	"	
Cadmium	2.11	0.200	"	"	"	"	"	"	
Copper	6.07	0.400	"	"	"	"	"	"	
Lead	26.0	0.200	"	"	"	"	"	"	
Nickel	10.3	0.400	"	"	"	"	"	"	
Silver	0.115	0.0200	"	"	"	"	"	"	
Zinc	19.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0314	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.2	0.0500	mg/L dry	1	BHA0438	01/11/24	01/16/24	EPA 6020B	
Magnesium	20.9	0.0500	"	"	"	"	"	"	
Sodium	114	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.28	0.00100	units	1	BHA0599	01/16/24	01/16/24	Calculation	

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

Date Sampled: **01/04/24 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 - Shable USX AB11-14P  
 Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**14FL01@4.5'**  
**2401120-01 (Soil)**

**Summit Scientific**

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

% Solids	78.8	%	1	BHA0322	01/09/24	01/10/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.812</b>	0.0100	mmhos/cm	1	BHA0465	01/12/24	01/12/24	EPA 120.1	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.74</b>		pH Units	1	BHA0466	01/12/24	01/12/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL09@5.0'**  
**2401120-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0311	01/09/24	01/12/24	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: **01/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0395	98.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0419	105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA0316	01/09/24	01/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.37	58.9 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL09@5.0'**  
**2401120-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0284	01/09/24	01/10/24	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: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0135	40.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	61.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0417	01/11/24	01/13/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/04/24 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 - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL09@5.0'**  
**2401120-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.04	0.200	mg/kg dry	1	BHA0381	01/10/24	01/18/24	EPA 6020B
Barium	151	0.400	"	"	"	"	"	"
Cadmium	0.254	0.200	"	"	"	"	"	"
Copper	2.68	0.400	"	"	"	"	"	"
Lead	11.5	0.200	"	"	"	"	"	"
Nickel	2.26	0.400	"	"	"	"	"	"
Silver	0.0659	0.0200	"	"	"	"	"	"
Zinc	8.98	0.400	"	"	"	"	"	"
Selenium	0.344	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 01/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0314	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: 01/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.9	0.0500	mg/L dry	1	BHA0438	01/11/24	01/16/24	EPA 6020B	
Magnesium	3.61	0.0500	"	"	"	"	"	"	
Sodium	81.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 01/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.01	0.00100	units	1	BHA0599	01/16/24	01/16/24	Calculation	

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

Date Sampled: 01/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Shable USX AB11-14P  
 Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**14FL09@5.0'**  
**2401120-02 (Soil)**

**Summit Scientific**

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

<b>% Solids</b>	<b>88.0</b>	%	1	BHA0322	01/09/24	01/10/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.444</b>	0.0100	mmhos/cm	1	BHA0465	01/12/24	01/12/24	EPA 120.1	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.67</b>		pH Units	1	BHA0466	01/12/24	01/12/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Shable USX AB11-14P  
Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL11@4.0'**  
**2401120-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHA0311	01/09/24	01/12/24	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: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0346	86.4 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0430	108 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0316	01/09/24	01/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	8.67	69.4 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL11@4.0'**  
**2401120-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0284	01/09/24	01/10/24	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: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0141	42.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0417	01/11/24	01/13/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/04/24 00:00**

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

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL11@4.0'**  
**2401120-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.976	0.200	mg/kg dry	1	BHA0381	01/10/24	01/18/24	EPA 6020B	
Barium	81.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.83	0.400	"	"	"	"	"	"	
Lead	7.86	0.200	"	"	"	"	"	"	
Nickel	1.80	0.400	"	"	"	"	"	"	
Silver	0.0344	0.0200	"	"	"	"	"	"	
Zinc	7.35	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0314	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.2	0.0500	mg/L dry	1	BHA0438	01/11/24	01/16/24	EPA 6020B	
Magnesium	5.12	0.0500	"	"	"	"	"	"	
Sodium	3.68	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.175	0.00100	units	1	BHA0599	01/16/24	01/16/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**14FL11@4.0'**  
**2401120-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.1		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/04/24 00:00**

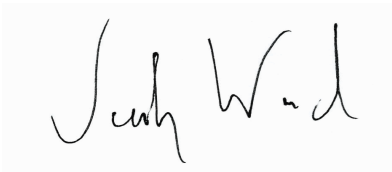
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0764	0.0100	mmhos/cm	1	BHA0465	01/12/24	01/12/24	EPA 120.1	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BHA0466	01/12/24	01/12/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL14@6.0'**  
**2401120-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHA0311	01/09/24	01/12/24	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: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0345	86.2 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0440	110 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0316	01/09/24	01/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	8.53	68.2 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL14@6.0'**  
**2401120-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0284	01/09/24	01/10/24	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: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0417	01/11/24	01/13/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/04/24 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 - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL14@6.0'**  
**2401120-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.06	0.200	mg/kg dry	1	BHA0381	01/10/24	01/18/24	EPA 6020B
Barium	115	0.400	"	"	"	"	"	"
Cadmium	0.319	0.200	"	"	"	"	"	"
Copper	3.05	0.400	"	"	"	"	"	"
Lead	12.3	0.200	"	"	"	"	"	"
Nickel	2.51	0.400	"	"	"	"	"	"
Silver	0.0909	0.0200	"	"	"	"	"	"
Zinc	10.9	0.400	"	"	"	"	"	"
Selenium	0.693	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0314	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.0	0.0500	mg/L dry	1	BHA0438	01/11/24	01/16/24	EPA 6020B	
Magnesium	9.85	0.0500	"	"	"	"	"	"	
Sodium	152	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.09	0.00100	units	1	BHA0599	01/16/24	01/16/24	Calculation	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Shable USX AB11-14P  
 Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**14FL14@6.0'**  
**2401120-04 (Soil)**

**Summit Scientific**

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

% Solids	80.5	%	1	BHA0322	01/09/24	01/10/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.746	0.0100	mmhos/cm	1	BHA0465	01/12/24	01/12/24	EPA 120.1	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BHA0466	01/12/24	01/12/24	EPA 9045D	

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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL15@5.0'**  
**2401120-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHA0311	01/09/24	01/12/24	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: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0412	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0442	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0446	111 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0316	01/09/24	01/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.45	59.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL15@5.0'**  
**2401120-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0284	01/09/24	01/10/24	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: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0145	43.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0135	40.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0417	01/11/24	01/13/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/04/24 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 - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**14FL15@5.0'**  
**2401120-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.05	0.200	mg/kg dry	1	BHA0381	01/10/24	01/18/24	EPA 6020B
Barium	126	0.400	"	"	"	"	"	"
Cadmium	0.348	0.200	"	"	"	"	"	"
Copper	3.00	0.400	"	"	"	"	"	"
Lead	14.2	0.200	"	"	"	"	"	"
Nickel	2.63	0.400	"	"	"	"	"	"
Silver	0.0893	0.0200	"	"	"	"	"	"
Zinc	11.0	0.400	"	"	"	"	"	"
Selenium	0.397	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 01/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0314	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: 01/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.9	0.0500	mg/L dry	1	BHA0438	01/11/24	01/16/24	EPA 6020B	
Magnesium	10.8	0.0500	"	"	"	"	"	"	
Sodium	4.12	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 01/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.131	0.00100	units	1	BHA0599	01/16/24	01/16/24	Calculation	

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

Date Sampled: 01/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**14FL15@5.0'**  
**2401120-05 (Soil)**

**Summit Scientific**

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

% Solids	81.1	%	1	BHA0322	01/09/24	01/10/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.324	0.0100	mmhos/cm	1	BHA0465	01/12/24	01/12/24	EPA 120.1	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BHA0466	01/12/24	01/12/24	EPA 9045D	

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

### 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 BHA0311 - EPA 5030 Soil MS

##### Blank (BHA0311-BLK1)

Prepared: 01/09/24 Analyzed: 01/11/24

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>	<i>0.0344</i>		<i>"</i>	<i>0.0400</i>		<i>86.1</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0437</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>				

##### LCS (BHA0311-BS1)

Prepared: 01/09/24 Analyzed: 01/12/24

Benzene	0.0882	0.0020	mg/kg	0.100		88.2	70-130				
Toluene	0.114	0.0050	"	0.100		114	70-130				
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130				
m,p-Xylene	0.218	0.010	"	0.200		109	70-130				
o-Xylene	0.109	0.0050	"	0.100		109	70-130				
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130				
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130				
Naphthalene	0.0890	0.0038	"	0.100		89.0	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0348</i>		<i>"</i>	<i>0.0400</i>		<i>87.0</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0437</i>		<i>"</i>	<i>0.0400</i>		<i>109</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>				

##### Matrix Spike (BHA0311-MS1)

Source: 2401134-01

Prepared: 01/09/24 Analyzed: 01/12/24

Benzene	0.0701	0.0020	mg/kg	0.100	ND	70.1	70-130				
Toluene	0.0814	0.0050	"	0.100	ND	81.4	70-130				
Ethylbenzene	0.0754	0.0050	"	0.100	ND	75.4	70-130				
m,p-Xylene	0.150	0.010	"	0.200	ND	75.2	70-130				
o-Xylene	0.0797	0.0050	"	0.100	ND	79.7	70-130				
1,2,4-Trimethylbenzene	0.0679	0.0050	"	0.100	ND	67.9	70-130				QM-07
1,3,5-Trimethylbenzene	0.0715	0.0050	"	0.100	ND	71.5	70-130				
Naphthalene	0.0626	0.0038	"	0.100	ND	62.6	70-130				QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0442</i>		<i>"</i>	<i>0.0400</i>		<i>110</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>				

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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**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 BHA0311 - EPA 5030 Soil MS**

Matrix Spike Dup (BHA0311-MSD1)	Source: 2401134-01			Prepared: 01/09/24 Analyzed: 01/12/24						
Benzene	0.0802	0.0020	mg/kg	0.100	ND	80.2	70-130	13.5	30	
Toluene	0.0948	0.0050	"	0.100	ND	94.8	70-130	15.3	30	
Ethylbenzene	0.0834	0.0050	"	0.100	ND	83.4	70-130	10.0	30	
m,p-Xylene	0.167	0.010	"	0.200	ND	83.6	70-130	10.6	30	
o-Xylene	0.0866	0.0050	"	0.100	ND	86.6	70-130	8.23	30	
1,2,4-Trimethylbenzene	0.0745	0.0050	"	0.100	ND	74.5	70-130	9.36	30	
1,3,5-Trimethylbenzene	0.0774	0.0050	"	0.100	ND	77.4	70-130	7.94	30	
Naphthalene	0.0664	0.0038	"	0.100	ND	66.4	70-130	5.91	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0400		96.3	50-150			
Surrogate: Toluene-d8	0.0428		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

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Project: Noble - Shable USX AB11-14P  
 Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BHA0316 - EPA 3550A**

**Blank (BHA0316-BLK1)**

Prepared: 01/09/24 Analyzed: 01/10/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		102	30-150			

**LCS (BHA0316-BS1)**

Prepared: 01/09/24 Analyzed: 01/10/24

C10-C28 (DRO)	475	50	mg/kg	500		95.1	70-130			
Surrogate: <i>o</i> -Terphenyl	9.15		"	12.5		73.2	30-150			

**Matrix Spike (BHA0316-MS1)**

Source: 2401120-02

Prepared: 01/09/24 Analyzed: 01/10/24

C10-C28 (DRO)	521	50	mg/kg	500	19.7	100	70-130			
Surrogate: <i>o</i> -Terphenyl	10.2		"	12.5		81.5	30-150			

**Matrix Spike Dup (BHA0316-MSD1)**

Source: 2401120-02

Prepared: 01/09/24 Analyzed: 01/10/24

C10-C28 (DRO)	392	50	mg/kg	500	19.7	74.4	70-130	28.3	20	QR-02
Surrogate: <i>o</i> -Terphenyl	8.63		"	12.5		69.0	30-150			

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Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**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 BHA0284 - EPA 5030 Soil MS**

**Blank (BHA0284-BLK1)**

Prepared & Analyzed: 01/09/24

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>0.0133</i>		"	<i>0.0333</i>		<i>40.0</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0281</i>		"	<i>0.0333</i>		<i>84.4</i>		<i>40-150</i>		

**LCS (BHA0284-BS1)**

Prepared & Analyzed: 01/09/24

Acenaphthene	0.0274	0.00500	mg/kg	0.0333		82.1		31-137		
Anthracene	0.0289	0.00500	"	0.0333		86.8		30-120		
Benzo (a) anthracene	0.0266	0.00500	"	0.0333		79.8		30-120		
Benzo (a) pyrene	0.0249	0.00500	"	0.0333		74.6		30-120		
Benzo (b) fluoranthene	0.0265	0.00500	"	0.0333		79.5		30-120		
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333		90.3		30-120		
Chrysene	0.0326	0.00500	"	0.0333		97.8		30-120		
Dibenz (a,h) anthracene	0.0225	0.00500	"	0.0333		67.4		30-120		
Fluoranthene	0.0289	0.00500	"	0.0333		86.8		30-120		
Fluorene	0.0302	0.00500	"	0.0333		90.7		30-120		
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333		67.5		30-120		
Pyrene	0.0320	0.00500	"	0.0333		96.1		35-142		
1-Methylnaphthalene	0.0213	0.00500	"	0.0333		63.9		35-142		
2-Methylnaphthalene	0.0333	0.00500	"	0.0333		100		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0225</i>		"	<i>0.0333</i>		<i>67.4</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0296</i>		"	<i>0.0333</i>		<i>88.8</i>		<i>40-150</i>		

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**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 BHA0284 - EPA 5030 Soil MS**

**Matrix Spike (BHA0284-MS1)**

Source: 2401115-01

Prepared & Analyzed: 01/09/24

Acenaphthene	0.0168	0.00500	mg/kg	0.0333	ND	50.5	31-137			
Anthracene	0.0182	0.00500	"	0.0333	ND	54.5	30-120			
Benzo (a) anthracene	0.0200	0.00500	"	0.0333	ND	60.1	30-120			
Benzo (a) pyrene	0.0174	0.00500	"	0.0333	ND	52.2	30-120			
Benzo (b) fluoranthene	0.0177	0.00500	"	0.0333	ND	53.1	30-120			
Benzo (k) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.4	30-120			
Chrysene	0.0198	0.00500	"	0.0333	ND	59.4	30-120			
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.4	30-120			
Fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	30-120			
Fluorene	0.0187	0.00500	"	0.0333	ND	56.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Pyrene	0.0217	0.00500	"	0.0333	ND	65.0	35-142			
1-Methylnaphthalene	0.0135	0.00500	"	0.0333	ND	40.6	15-130			
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0144		"	0.0333		43.1	40-150			
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.4	40-150			

**Matrix Spike Dup (BHA0284-MSD1)**

Source: 2401115-01

Prepared & Analyzed: 01/09/24

Acenaphthene	0.0214	0.00500	mg/kg	0.0333	ND	64.3	31-137	24.0	30
Anthracene	0.0232	0.00500	"	0.0333	ND	69.6	30-120	24.3	30
Benzo (a) anthracene	0.0249	0.00500	"	0.0333	ND	74.8	30-120	21.9	30
Benzo (a) pyrene	0.0215	0.00500	"	0.0333	ND	64.6	30-120	21.4	30
Benzo (b) fluoranthene	0.0226	0.00500	"	0.0333	ND	67.8	30-120	24.4	30
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.1	30-120	18.8	30
Chrysene	0.0234	0.00500	"	0.0333	ND	70.2	30-120	16.7	30
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	11.7	30
Fluoranthene	0.0235	0.00500	"	0.0333	ND	70.5	30-120	20.9	30
Fluorene	0.0247	0.00500	"	0.0333	ND	74.0	30-120	27.3	30
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	8.75	30
Pyrene	0.0256	0.00500	"	0.0333	ND	76.7	35-142	16.6	30
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	15-130	21.7	50
2-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.2	15-130	26.1	50
Surrogate: 2-Methylnaphthalene-d10	0.0183		"	0.0333		55.0	40-150		
Surrogate: Fluoranthene-d10	0.0241		"	0.0333		72.3	40-150		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**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 BHA0417 - EPA 3050B**

**Blank (BHA0417-BLK1)**

Prepared: 01/11/24 Analyzed: 01/13/24

Boron ND 2.00 mg/L

**LCS (BHA0417-BS1)**

Prepared: 01/11/24 Analyzed: 01/13/24

Boron 4.74 2.00 mg/L 5.00 94.9 80-120

**Duplicate (BHA0417-DUP1)**

**Source: 2311396-08**

Prepared: 01/11/24 Analyzed: 01/13/24

Boron 0.152 2.00 mg/L 0.154 1.56 20

**Matrix Spike (BHA0417-MS1)**

**Source: 2311396-08**

Prepared: 01/11/24 Analyzed: 01/13/24

Boron 4.72 2.00 mg/L 5.00 0.154 91.3 75-125

**Matrix Spike Dup (BHA0417-MSD1)**

**Source: 2311396-08**

Prepared: 01/11/24 Analyzed: 01/13/24

Boron 4.77 2.00 mg/L 5.00 0.154 92.4 75-125 1.13 25

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHA0381 - EPA 3050B**

**Blank (BHA0381-BLK1)**

Prepared: 01/10/24 Analyzed: 01/17/24

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	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BHA0381-BS1)**

Prepared: 01/10/24 Analyzed: 01/17/24

Arsenic	40.9	0.200	mg/kg wet	40.0	102	80-120
Barium	44.3	0.400	"	40.0	111	80-120
Cadmium	2.13	0.200	"	2.00	106	80-120
Copper	40.6	0.400	"	40.0	101	80-120
Lead	21.7	0.200	"	20.0	109	80-120
Nickel	39.5	0.400	"	40.0	98.7	80-120
Silver	2.15	0.0200	"	2.00	107	80-120
Zinc	39.8	0.400	"	40.0	99.6	80-120
Selenium	4.25	0.260	"	4.00	106	80-120

**Duplicate (BHA0381-DUP1)**

Source: 2312212-05

Prepared: 01/10/24 Analyzed: 01/17/24

Arsenic	0.805	0.200	mg/kg dry	0.881	8.97	20
Barium	53.1	0.400	"	54.7	2.96	20
Cadmium	0.0816	0.200	"	0.0769	5.90	20
Copper	1.43	0.400	"	1.79	22.5	20
Lead	4.87	0.200	"	5.19	6.38	20
Nickel	1.43	0.400	"	1.67	15.4	20
Silver	0.0153	0.0200	"	0.0127	18.2	20
Zinc	6.07	0.400	"	6.58	8.00	20
Selenium	ND	0.260	"	ND		20

QR-01

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**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 BHA0381 - EPA 3050B**

**Matrix Spike (BHA0381-MS1)**

Source: 2312212-05

Prepared: 01/10/24 Analyzed: 01/17/24

Arsenic	17.0	0.200	mg/kg dry	42.5	0.881	38.0	75-125				QM-07
Barium	96.1	0.400	"	42.5	54.7	97.6	75-125				
Cadmium	2.17	0.200	"	2.12	0.0769	98.5	75-125				
Copper	17.6	0.400	"	42.5	1.79	37.2	75-125				QM-07
Lead	25.0	0.200	"	21.2	5.19	93.0	75-125				
Nickel	17.3	0.400	"	42.5	1.67	36.9	75-125				QM-07
Silver	2.10	0.0200	"	2.12	0.0127	98.1	75-125				
Zinc	22.0	0.400	"	42.5	6.58	36.3	75-125				QM-07
Selenium	4.08	0.260	"	4.25	ND	96.1	75-125				

**Matrix Spike Dup (BHA0381-MSD1)**

Source: 2312212-05

Prepared: 01/10/24 Analyzed: 01/17/24

Arsenic	17.1	0.200	mg/kg dry	42.5	0.881	38.3	75-125	0.777	25		QM-07
Barium	101	0.400	"	42.5	54.7	109	75-125	4.74	25		
Cadmium	2.32	0.200	"	2.12	0.0769	106	75-125	6.88	25		
Copper	17.7	0.400	"	42.5	1.79	37.5	75-125	0.652	25		QM-07
Lead	26.2	0.200	"	21.2	5.19	98.7	75-125	4.71	25		
Nickel	17.5	0.400	"	42.5	1.67	37.3	75-125	1.05	25		QM-07
Silver	2.20	0.0200	"	2.12	0.0127	103	75-125	4.69	25		
Zinc	22.1	0.400	"	42.5	6.58	36.6	75-125	0.566	25		QM-07
Selenium	3.93	0.260	"	4.25	ND	92.6	75-125	3.71	25		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**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 BHA0314 - 3060A Mod**

**Blank (BHA0314-BLK1)**

Prepared: 01/09/24 Analyzed: 01/10/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHA0314-BS1)**

Prepared: 01/09/24 Analyzed: 01/10/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

**Duplicate (BHA0314-DUP1)**

**Source: 2401091-01**

Prepared: 01/09/24 Analyzed: 01/10/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHA0314-MS1)**

**Source: 2401091-01**

Prepared: 01/09/24 Analyzed: 01/10/24

Chromium, Hexavalent 28.2 0.30 mg/kg dry 26.4 ND 107 75-125

**Matrix Spike Dup (BHA0314-MSD1)**

**Source: 2401091-01**

Prepared: 01/09/24 Analyzed: 01/10/24

Chromium, Hexavalent 27.9 0.30 mg/kg dry 26.4 ND 106 75-125 1.32 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**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 BHA0438 - General Preparation**

**Blank (BHA0438-BLK1)**

Prepared: 01/11/24 Analyzed: 01/16/24

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

**LCS (BHA0438-BS1)**

Prepared: 01/11/24 Analyzed: 01/16/24

Calcium	5.65	0.0500	mg/L wet	5.00		113	70-130			
Magnesium	5.11	0.0500	"	5.00		102	70-130			
Sodium	5.09	0.0500	"	5.00		102	70-130			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

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

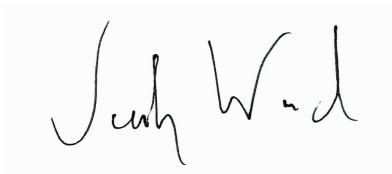
**Summit Scientific**

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

**Batch BHA0322 - General Preparation**

<b>Duplicate (BHA0322-DUP1)</b>		<b>Source: 2401119-01</b>		Prepared: 01/09/24 Analyzed: 01/10/24	
% Solids	79.5	%		80.2	0.890 20

Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**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 BHA0465 - General Preparation**

<b>Blank (BHA0465-BLK1)</b>		Prepared & Analyzed: 01/12/24									
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
<b>LCS (BHA0465-BS1)</b>		Prepared & Analyzed: 01/12/24									
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	0.150		99.7	95-105				
<b>LCS (BHA0465-BS2)</b>		Prepared & Analyzed: 01/12/24									
Specific Conductance (EC)	0.149	0.0100	mmhos/cm	0.150		99.2	95-105				
<b>LCS (BHA0465-BS3)</b>		Prepared & Analyzed: 01/12/24									
Specific Conductance (EC)	0.147	0.0100	mmhos/cm	0.150		98.1	95-105				
<b>LCS (BHA0465-BS4)</b>		Prepared & Analyzed: 01/12/24									
Specific Conductance (EC)	0.146	0.0100	mmhos/cm	0.150		97.3	95-105				
<b>Duplicate (BHA0465-DUP1)</b>		<b>Source: 2311396-08</b>		Prepared & Analyzed: 01/12/24							
Specific Conductance (EC)	0.118	0.0100	mmhos/cm		0.119			0.931	20		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:48

**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 BHA0466 - General Preparation**

<b>LCS (BHA0466-BS1)</b>		Prepared & Analyzed: 01/12/24								
pH	9.18		pH Units	9.18		100		95-105		
<b>LCS (BHA0466-BS2)</b>		Prepared & Analyzed: 01/12/24								
pH	9.15		pH Units	9.18		99.7		95-105		
<b>LCS (BHA0466-BS3)</b>		Prepared & Analyzed: 01/12/24								
pH	9.15		pH Units	9.18		99.7		95-105		
<b>LCS (BHA0466-BS4)</b>		Prepared & Analyzed: 01/12/24								
pH	9.13		pH Units	9.18		99.5		95-105		
<b>Duplicate (BHA0466-DUP1)</b>		<b>Source: 2311396-08</b>		Prepared & Analyzed: 01/12/24						
pH	7.74		pH Units			8.00		3.30	20	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:48

### Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 18, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

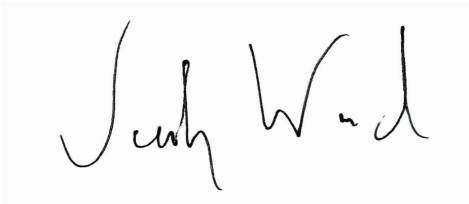
Wellington, CO 80549

RE: Noble - Shable USX (Backgrounds)

Work Order #2401123

Enclosed are the results of analyses for samples received by Summit Scientific on 01/08/24 17:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@6.0"	2401123-01	Soil	01/03/24 00:00	01/08/24 17:08
BKG01@4.0'	2401123-02	Soil	01/03/24 00:00	01/08/24 17:08
BKG01@6.0'	2401123-03	Soil	01/03/24 00:00	01/08/24 17:08
BKG02@6.0"	2401123-04	Soil	01/03/24 00:00	01/08/24 17:08
BKG02@4.0'	2401123-05	Soil	01/03/24 00:00	01/08/24 17:08
BKG02@6.0'	2401123-06	Soil	01/03/24 00:00	01/08/24 17:08
BKG03@6.0"	2401123-07	Soil	01/03/24 00:00	01/08/24 17:08
BKG03@4.0'	2401123-08	Soil	01/03/24 00:00	01/08/24 17:08
BKG03@6.0'	2401123-09	Soil	01/03/24 00:00	01/08/24 17:08
BKG04@6.0"	2401123-10	Soil	01/03/24 00:00	01/08/24 17:08
BKG04@4.0'	2401123-11	Soil	01/03/24 00:00	01/08/24 17:08
BKG04@6.0'	2401123-12	Soil	01/03/24 00:00	01/08/24 17:08
BKG05@6.0"	2401123-13	Soil	01/03/24 00:00	01/08/24 17:08
BKG05@4.0'	2401123-14	Soil	01/03/24 00:00	01/08/24 17:08
BKG05@6.0'	2401123-15	Soil	01/03/24 00:00	01/08/24 17:08

Summit Scientific

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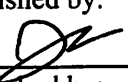
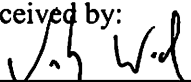
# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page 1 of 2
2401123	

Client: <b>Fremont Env</b>		Send Data To: Project Manager: <b>Paul Henehan</b>		Send Invoice To: Company: <b>Noble</b>	
Address:		E-Mail: <b>Paulh@fremontenv.com</b>		Project Name/Location: <b>Shable USX AB11-14P</b>	
City/State/Zip:		<b>jeffj@fremontenv.com Ethamb@fremontenv.com</b>		AFE#:	
Phone:		Project Name: <b>Shable USX (Backgrounds)</b>		PO/Billing Codes: <b>UURUE-A3428-ABN</b>	
Sampler Name: <b>J6</b>		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	PH, SAR, EC, Boron	Metals (915)		
1	BK601@6.0"	01/03/24		1			X			X			X	X		
2	BK601@4.0'															
3	BK601@6.0'															
4	BK602@6.0"															
5	BK602@4.0'															
6	BK602@6.0'															
7	BK603@6.0"															
8	BK603@4.0'															
9	BK603@6.0'															
10	BK604@6.0"															
11	BK604@4.0'															
12	BK604@6.0'															
13	BK605@6.0"															
14	BK605@4.0'															
15	BK605@6.0'															

Relinquished by: 	Date/Time: 01/08/24 17:08	Received by: 	Date/Time: 1/8/24 17:08	TAT Business Days	Field DO	Notes:  Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: 4.6	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2401123

Client: Fremont Client Project ID: Shible JSX

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

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

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on file
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no sample files
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>Additional Comments (if any):</u>				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

J. W. W. d.  
Custodian Printed Name

1/8/24 17:08  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG01@6.0"**  
**2401123-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.908</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>159</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.283</b>	0.200		"	"	"	"	"	"	
Copper	<b>2.61</b>	0.400		"	"	"	"	"	"	
Lead	<b>11.6</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.41</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0931</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>8.76</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>174</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>30.7</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>53.0</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:51

**BKG01@6.0"**  
**2401123-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.974</b>	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>90.6</b>		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.260</b>	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>9.34</b>		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG01@4.0'**  
**2401123-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.932</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>140</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.494</b>	0.200		"	"	"	"	"	"	
Copper	<b>3.34</b>	0.400		"	"	"	"	"	"	
Lead	<b>17.6</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.68</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.154</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>11.3</b>	0.400		"	"	"	"	"	"	
Selenium	<b>0.866</b>	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>84.9</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>15.9</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>142</b>	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:51

**BKG01@4.0'**  
**2401123-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.71	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.36	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG01@6.0'**  
**2401123-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.974</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>87.2</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.487</b>	0.200		"	"	"	"	"	"	
Copper	<b>3.65</b>	0.400		"	"	"	"	"	"	
Lead	<b>17.5</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.85</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.164</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>12.4</b>	0.400		"	"	"	"	"	"	
Selenium	<b>0.427</b>	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>29.7</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>6.74</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>89.2</b>	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG01@6.0'**  
**2401123-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>3.84</b>	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>82.4</b>		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.687</b>	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.55</b>		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG02@6.0"**  
**2401123-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.969</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>134</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.219</b>	0.200		"	"	"	"	"	"	
Copper	<b>2.34</b>	0.400		"	"	"	"	"	"	
Lead	<b>9.63</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.24</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0551</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>8.20</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>224</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>21.2</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>38.6</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG02@6.0"**  
**2401123-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.661	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.7		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.215	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.35		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG02@4.0'**  
**2401123-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.871</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>147</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.333</b>	0.200		"	"	"	"	"	"	
Copper	<b>3.16</b>	0.400		"	"	"	"	"	"	
Lead	<b>14.8</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.17</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.128</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>10.7</b>	0.400		"	"	"	"	"	"	
Selenium	<b>0.702</b>	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>249</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>32.6</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>195</b>	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

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Fremont Environmental  
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Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:51

**BKG02@4.0'**  
**2401123-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.09	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.39	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG02@6.0'**  
**2401123-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.926</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>131</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.467</b>	0.200		"	"	"	"	"	"	
Copper	<b>3.50</b>	0.400		"	"	"	"	"	"	
Lead	<b>16.0</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.69</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.147</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>11.6</b>	0.400		"	"	"	"	"	"	
Selenium	<b>0.382</b>	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>20.5</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>5.73</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>64.8</b>	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG02@6.0'**  
**2401123-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.26	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.2		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.442	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.34		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG03@6.0"**  
**2401123-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.974</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>111</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.232</b>	0.200		"	"	"	"	"	"	
Copper	<b>2.30</b>	0.400		"	"	"	"	"	"	
Lead	<b>9.19</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.01</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0611</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>7.47</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>178</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>15.6</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>33.8</b>	0.0500		"	"	"	"	"	"	

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Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG03@6.0"**  
**2401123-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.652	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.6		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.208	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.21		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG03@4.0'**  
**2401123-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.972</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>115</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.460</b>	0.200		"	"	"	"	"	"	
Copper	<b>3.39</b>	0.400		"	"	"	"	"	"	
Lead	<b>16.2</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.69</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.147</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>11.6</b>	0.400		"	"	"	"	"	"	
Selenium	<b>0.720</b>	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>44.9</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>8.70</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>95.0</b>	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG03@4.0'**  
**2401123-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.40	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.813	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG03@6.0'**  
**2401123-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.991</b>	0.200	mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>138</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.478</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.59</b>	0.400	"	"	"	"	"	"	
Lead	<b>17.4</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.66</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.158</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>11.9</b>	0.400	"	"	"	"	"	"	
Selenium	<b>0.396</b>	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>11.7</b>	0.0500	mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>4.47</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>107</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Shable USX (Backgrounds)  
Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG03@6.0'**  
**2401123-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.75	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.655	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.07		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG04@6.0"**  
**2401123-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.24	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	115	0.400		"	"	"	"	"	"	
Cadmium	0.312	0.200		"	"	"	"	"	"	
Copper	2.40	0.400		"	"	"	"	"	"	
Lead	10.2	0.200		"	"	"	"	"	"	
Nickel	2.37	0.400		"	"	"	"	"	"	
Silver	0.0574	0.0200		"	"	"	"	"	"	
Zinc	7.67	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	105	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	10.5	0.0500		"	"	"	"	"	"	
Sodium	33.5	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG04@6.0"**  
**2401123-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.834</b>	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>93.4</b>		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.253</b>	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>9.05</b>		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG04@4.0'**  
**2401123-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.36</b>	0.200	mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
<b>Barium</b>	<b>127</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.46</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>5.26</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>1.60</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>5.87</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>46.7</b>	0.0500	mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
<b>Magnesium</b>	<b>6.30</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>19.9</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:51

**BKG04@4.0'**  
**2401123-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.725</b>	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>96.0</b>		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.210</b>	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.94</b>		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG04@6.0'**  
**2401123-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.886</b>	0.200	mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>131</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.498</b>	0.200	"	"	"	"	"	"	
Copper	<b>3.48</b>	0.400	"	"	"	"	"	"	
Lead	<b>17.8</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.68</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.167</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>11.9</b>	0.400	"	"	"	"	"	"	
Selenium	<b>0.422</b>	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>19.3</b>	0.0500	mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>5.84</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>100</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)  
Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG04@6.0'**  
**2401123-12 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.12	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.0		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.688	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG05@6.0"**  
**2401123-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.702</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>129</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.328</b>	0.200		"	"	"	"	"	"	
Copper	<b>2.65</b>	0.400		"	"	"	"	"	"	
Lead	<b>11.9</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.37</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.101</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>8.54</b>	0.400		"	"	"	"	"	"	
Selenium	<b>0.281</b>	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>90.9</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>16.2</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>43.0</b>	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG05@6.0"**  
**2401123-13 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.09	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.5		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.245	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.49		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG05@4.0'**  
**2401123-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.640</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>96.2</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.338</b>	0.200		"	"	"	"	"	"	
Copper	<b>1.96</b>	0.400		"	"	"	"	"	"	
Lead	<b>8.82</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.20</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0342</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>7.79</b>	0.400		"	"	"	"	"	"	
Selenium	<b>0.324</b>	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>176</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>61.0</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>383</b>	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:51

**BKG05@4.0'**  
**2401123-14 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.34	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.09	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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PO Box 1289  
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Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG05@6.0'**  
**2401123-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0388	01/10/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>1.84</b>	0.200		mg/kg dry	1	BHA0382	01/10/24	01/18/24	EPA 6020B	
Barium	<b>20.2</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>5.03</b>	0.400		"	"	"	"	"	"	
Lead	<b>13.6</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.31</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0665</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>11.8</b>	0.400		"	"	"	"	"	"	
Selenium	<b>0.360</b>	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0313	01/09/24	01/10/24	EPA 7196A	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>131</b>	0.0500		mg/L dry	1	BHA0499	01/12/24	01/17/24	EPA 6020B	
Magnesium	<b>33.0</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>170</b>	0.0500		"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**BKG05@6.0'**  
**2401123-15 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.44	0.00100	units	1	BHA0621	01/17/24	01/17/24	Calculation	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.8		%	1	BHA0322	01/09/24	01/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.73	0.0100	mmhos/cm	1	BHA0536	01/15/24	01/16/24	EPA 120.1	

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

Date Sampled: **01/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BHA0535	01/15/24	01/16/24	EPA 9045D	

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 (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

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

**Summit Scientific**

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

**Batch BHA0388 - EPA 3050B**

<b>Blank (BHA0388-BLK1)</b>				Prepared: 01/10/24 Analyzed: 01/17/24							
Boron	ND	2.00	mg/L								
<b>LCS (BHA0388-BS1)</b>				Prepared: 01/10/24 Analyzed: 01/17/24							
Boron	7.06	2.00	mg/L	5.00	141	80-120				QLCS-01	
<b>Duplicate (BHA0388-DUP1)</b>				Source: 2401123-01 Prepared: 01/10/24 Analyzed: 01/17/24							
Boron	1.29	2.00	mg/L		1.26			2.59	20		
<b>Matrix Spike (BHA0388-MS1)</b>				Source: 2401123-01 Prepared: 01/10/24 Analyzed: 01/17/24							
Boron	8.74	2.00	mg/L	5.00	1.26	150	75-125			QLCS-01	
<b>Matrix Spike Dup (BHA0388-MSD1)</b>				Source: 2401123-01 Prepared: 01/10/24 Analyzed: 01/17/24							
Boron	8.80	2.00	mg/L	5.00	1.26	151	75-125	0.713	25	QLCS-01	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**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 BHA0382 - EPA 3050B**

**Blank (BHA0382-BLK1)**

Prepared: 01/10/24 Analyzed: 01/18/24

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	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BHA0382-BS1)**

Prepared: 01/10/24 Analyzed: 01/18/24

Arsenic	41.6	0.200	mg/kg wet	40.0		104	80-120			
Barium	47.1	0.400	"	40.0		118	80-120			
Cadmium	2.34	0.200	"	2.00		117	80-120			
Copper	42.1	0.400	"	40.0		105	80-120			
Lead	23.5	0.200	"	20.0		118	80-120			
Nickel	40.8	0.400	"	40.0		102	80-120			
Silver	2.31	0.0200	"	2.00		116	80-120			
Zinc	41.1	0.400	"	40.0		103	80-120			
Selenium	4.54	0.260	"	4.00		114	80-120			

**Duplicate (BHA0382-DUP1)**

Source: 2401123-01

Prepared: 01/10/24 Analyzed: 01/18/24

Arsenic	0.856	0.200	mg/kg dry	0.908		5.91	20			
Barium	121	0.400	"	159		27.5	20			QR-04
Cadmium	0.304	0.200	"	0.283		7.06	20			
Copper	2.68	0.400	"	2.61		2.39	20			
Lead	12.8	0.200	"	11.6		10.0	20			
Nickel	2.23	0.400	"	2.41		7.51	20			
Silver	0.0861	0.0200	"	0.0931		7.88	20			
Zinc	8.67	0.400	"	8.76		0.988	20			
Selenium	0.194	0.260	"	0.211		8.51	20			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:51

**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 BHA0382 - EPA 3050B**

**Matrix Spike (BHA0382-MS1)**

Source: 2401123-01

Prepared: 01/10/24 Analyzed: 01/18/24

Arsenic	9.38	0.200	mg/kg dry	44.1	0.908	19.2	75-125				QM-07
Barium	489	0.400	"	44.1	159	745	75-125				QM-07
Cadmium	2.80	0.200	"	2.21	0.283	114	75-125				
Copper	11.5	0.400	"	44.1	2.61	20.1	75-125				QM-07
Lead	34.2	0.200	"	22.1	11.6	103	75-125				
Nickel	11.3	0.400	"	44.1	2.41	20.1	75-125				QM-07
Silver	2.59	0.0200	"	2.21	0.0931	113	75-125				
Zinc	18.2	0.400	"	44.1	8.76	21.4	75-125				QM-07
Selenium	3.91	0.260	"	4.41	0.211	83.9	75-125				

**Matrix Spike Dup (BHA0382-MSD1)**

Source: 2401123-01

Prepared: 01/10/24 Analyzed: 01/18/24

Arsenic	9.33	0.200	mg/kg dry	44.1	0.908	19.1	75-125	0.463	25		QM-07
Barium	433	0.400	"	44.1	159	618	75-125	12.2	25		QM-07
Cadmium	2.49	0.200	"	2.21	0.283	99.8	75-125	11.9	25		
Copper	11.4	0.400	"	44.1	2.61	19.8	75-125	0.958	25		QM-07
Lead	30.5	0.200	"	22.1	11.6	85.8	75-125	11.5	25		
Nickel	11.2	0.400	"	44.1	2.41	19.8	75-125	0.985	25		QM-07
Silver	2.29	0.0200	"	2.21	0.0931	99.3	75-125	12.5	25		
Zinc	17.9	0.400	"	44.1	8.76	20.7	75-125	1.71	25		QM-07
Selenium	3.91	0.260	"	4.41	0.211	83.7	75-125	0.135	25		

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

**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 BHA0313 - 3060A Mod**

**Blank (BHA0313-BLK1)**

Prepared: 01/09/24 Analyzed: 01/10/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHA0313-BS1)**

Prepared: 01/09/24 Analyzed: 01/10/24

Chromium, Hexavalent 25.8 0.30 mg/kg wet 25.0 103 80-120

**Duplicate (BHA0313-DUP1)**

**Source: 2401116-01**

Prepared: 01/09/24 Analyzed: 01/10/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHA0313-MS1)**

**Source: 2401116-01**

Prepared: 01/09/24 Analyzed: 01/10/24

Chromium, Hexavalent 28.9 0.30 mg/kg dry 28.0 ND 103 75-125

**Matrix Spike Dup (BHA0313-MSD1)**

**Source: 2401116-01**

Prepared: 01/09/24 Analyzed: 01/10/24

Chromium, Hexavalent 28.0 0.30 mg/kg dry 28.0 ND 100 75-125 3.34 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:51

**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 BHA0499 - General Preparation**

**Blank (BHA0499-BLK1)**

Prepared: 01/12/24 Analyzed: 01/17/24

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

**LCS (BHA0499-BS1)**

Prepared: 01/12/24 Analyzed: 01/17/24

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130				
Magnesium	5.26	0.0500	"	5.00	105	70-130				
Sodium	5.25	0.0500	"	5.00	105	70-130				

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:51

**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 BHA0322 - General Preparation**

Duplicate (BHA0322-DUP1)	Source: 2401119-01	Prepared: 01/09/24	Analyzed: 01/10/24
% Solids	79.5	%	80.2
			0.890
			20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)  
 Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:51

**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 BHA0536 - General Preparation**

**Blank (BHA0536-BLK1)**

Prepared: 01/15/24 Analyzed: 01/16/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHA0536-BS1)**

Prepared: 01/15/24 Analyzed: 01/16/24

Specific Conductance (EC) 0.144 0.0100 mmhos/cm 0.150 95.7 95-105


**Duplicate (BHA0536-DUP1)**

**Source: 2401123-01**

Prepared: 01/15/24 Analyzed: 01/16/24

Specific Conductance (EC) 0.260 0.0100 mmhos/cm 0.260 0.115 20

Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 11:51

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

**Summit Scientific**

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

**Batch BHA0535 - General Preparation**

**LCS (BHA0535-BS1)**

Prepared: 01/15/24 Analyzed: 01/16/24

pH	9.15	pH Units	9.18	99.7	95-105
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**Duplicate (BHA0535-DUP1)**

Source: 2401123-01

Prepared: 01/15/24 Analyzed: 01/16/24

pH	9.38	pH Units	9.34	0.427	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX (Backgrounds)

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 11:51

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QLCS-01 The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
- 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 18, 2024

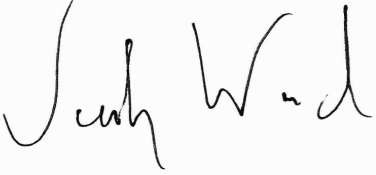
Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Shable USX AB11-14P

Work Order #2401124

Enclosed are the results of analyses for samples received by Summit Scientific on 01/08/24 17:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a small "w" at the end of the last name.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 13:16

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
14BKG06@4.5'	2401124-01	Soil	01/04/24 00:00	01/08/24 17:08

Summit Scientific

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# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID 2401124 Page 1 of 2

Client: <u>Fremont Env</u>		Send Data To: Project Manager: <u>Paul Henschel</u>		Send Invoice To: Company: <u>Noble</u>	
Address:		E-Mail: <u>Paulh@fremontenv.com</u>		Project Name/Location: <u>Shable USX AB11-14P</u>	
City/State/Zip:		<u>jeffg@fremontenv.com Ethamb@fremontenv.com</u>		AFE#:	
Phone:		Project Name: <u>Shable USX AB11-14P</u>		PO/Billing Codes: <u>VWRWE-A3428-ABN</u>	
Sampler Name: <u>J6</u>		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	PH, SAR, EC, <u>Gen</u>	Metals (915)					
1	<u>14BK606@4.5'</u>	<u>01/04/24</u>		<u>1</u>			<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>					
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>01/08/24 17:08</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/8/24 17:08</u>	TAT Business Days	Field DO	Notes:  <u>Bill to Noble</u>
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<u>X</u> Field Turb.	
Temperature Upon Receipt: <u>19.2</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2401124

Client: Fremont Client Project ID: Shable USX AB11-14P

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

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

Temp (°C) 19.2 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on file
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Sample form
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>Additional Comments (if any):</u>				

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

J. h. W. d.  
Custodian Printed Name

1/8/24 17:08  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 13:16

**14BKG06@4.5'**  
**2401124-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0418	01/11/24	01/17/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.63	0.200	mg/kg dry	1	BHA0404	01/11/24	01/13/24	EPA 6020B	
Barium	30.2	0.400	"	"	"	"	"	"	
Cadmium	0.449	0.200	"	"	"	"	"	"	
Copper	9.82	0.400	"	"	"	"	"	"	
Lead	12.2	0.200	"	"	"	"	"	"	
Nickel	5.60	0.400	"	"	"	"	"	"	
Silver	0.0790	0.0200	"	"	"	"	"	"	
Zinc	22.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0379	01/10/24	01/11/24	EPA 7196A	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	20.6	0.0500	mg/L dry	1	BHA0438	01/11/24	01/16/24	EPA 6020B	
Magnesium	13.1	0.0500	"	"	"	"	"	"	
Sodium	180	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Shable USX AB11-14P  
Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 13:16

**14BKG06@4.5'**  
**2401124-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.63	0.00100	units	1	BHA0599	01/16/24	01/16/24	Calculation	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BHA0331	01/09/24	01/09/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.830	0.0100	mmhos/cm	1	BHA0465	01/12/24	01/12/24	EPA 120.1	

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

Date Sampled: **01/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.37		pH Units	1	BHA0466	01/12/24	01/12/24	EPA 9045D	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 13:16

**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 BHA0418 - EPA 3050B**

**Blank (BHA0418-BLK1)**

Prepared: 01/11/24 Analyzed: 01/17/24

Boron ND 2.00 mg/L

**LCS (BHA0418-BS1)**

Prepared: 01/11/24 Analyzed: 01/17/24

Boron 5.06 2.00 mg/L 5.00 101 80-120

**Duplicate (BHA0418-DUP1)**

Source: 2401121-01

Prepared: 01/11/24 Analyzed: 01/17/24

Boron 0.507 2.00 mg/L 0.410 21.0 20 QR-01

**Matrix Spike (BHA0418-MS1)**

Source: 2401121-01

Prepared: 01/11/24 Analyzed: 01/17/24

Boron 5.53 2.00 mg/L 5.00 0.410 102 75-125

**Matrix Spike Dup (BHA0418-MSD1)**

Source: 2401121-01

Prepared: 01/11/24 Analyzed: 01/17/24

Boron 5.47 2.00 mg/L 5.00 0.410 101 75-125 1.07 25

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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 13:16

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHA0404 - EPA 3050B**

**Blank (BHA0404-BLK1)**

Prepared: 01/11/24 Analyzed: 01/13/24

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	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						
Selenium	ND	0.260	"						

**LCS (BHA0404-BS1)**

Prepared: 01/11/24 Analyzed: 01/13/24

Arsenic	36.5	0.200	mg/kg wet	40.0	91.3	80-120
Barium	38.6	0.400	"	40.0	96.4	80-120
Cadmium	1.93	0.200	"	2.00	96.6	80-120
Copper	44.5	0.400	"	40.0	111	80-120
Lead	18.9	0.200	"	20.0	94.7	80-120
Nickel	42.5	0.400	"	40.0	106	80-120
Silver	1.93	0.0200	"	2.00	96.3	80-120
Zinc	45.4	0.400	"	40.0	113	80-120
Selenium	3.95	0.260	"	4.00	98.8	80-120

**Duplicate (BHA0404-DUP1)**

Source: 2311073-01

Prepared: 01/11/24 Analyzed: 01/13/24

Arsenic	2.75	0.200	mg/kg dry	2.60	5.49	20
Barium	101	0.400	"	94.9	5.78	20
Cadmium	0.353	0.200	"	0.335	5.07	20
Copper	8.51	0.400	"	8.41	1.23	20
Lead	15.3	0.200	"	86.6	140	20
Nickel	4.87	0.400	"	4.96	1.83	20
Silver	0.0852	0.0200	"	0.0837	1.77	20
Zinc	31.0	0.400	"	33.4	7.27	20
Selenium	ND	0.260	"	ND		20

QR-04

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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 13:16

**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 BHA0404 - EPA 3050B**

**Matrix Spike (BHA0404-MS1)**

Source: 2311073-01

Prepared: 01/11/24 Analyzed: 01/13/24

Arsenic	45.2	0.200	mg/kg dry	49.8	2.60	85.4	75-125				
Barium	138	0.400	"	49.8	94.9	87.5	75-125				
Cadmium	2.79	0.200	"	2.49	0.335	98.4	75-125				
Copper	39.8	0.400	"	49.8	8.41	62.9	75-125				QM-07
Lead	36.7	0.200	"	24.9	86.6	NR	75-125				QM-07
Nickel	35.9	0.400	"	49.8	4.96	62.1	75-125				QM-07
Silver	2.43	0.0200	"	2.49	0.0837	94.3	75-125				
Zinc	62.3	0.400	"	49.8	33.4	58.0	75-125				QM-07
Selenium	3.05	0.260	"	4.98	ND	61.3	75-125				QM-07

**Matrix Spike Dup (BHA0404-MSD1)**

Source: 2311073-01

Prepared: 01/11/24 Analyzed: 01/13/24

Arsenic	44.4	0.200	mg/kg dry	49.8	2.60	83.8	75-125	1.73	25		
Barium	137	0.400	"	49.8	94.9	84.7	75-125	1.01	25		
Cadmium	2.75	0.200	"	2.49	0.335	96.8	75-125	1.40	25		
Copper	39.9	0.400	"	49.8	8.41	63.2	75-125	0.334	25		QM-07
Lead	36.3	0.200	"	24.9	86.6	NR	75-125	1.19	25		QM-07
Nickel	36.2	0.400	"	49.8	4.96	62.7	75-125	0.757	25		QM-07
Silver	2.39	0.0200	"	2.49	0.0837	92.6	75-125	1.71	25		
Zinc	62.5	0.400	"	49.8	33.4	58.4	75-125	0.326	25		QM-07
Selenium	2.99	0.260	"	4.98	ND	60.1	75-125	1.99	25		QM-07

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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 13:16

**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 BHA0379 - 3060A Mod**

**Blank (BHA0379-BLK1)**

Prepared: 01/10/24 Analyzed: 01/11/24

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BHA0379-BS1)**

Prepared: 01/10/24 Analyzed: 01/11/24

Chromium, Hexavalent      26.6      0.30 mg/kg wet      25.0      106      80-120

**Duplicate (BHA0379-DUP1)**

**Source: 2311073-01**

Prepared: 01/10/24 Analyzed: 01/11/24

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BHA0379-MS1)**

**Source: 2311073-01**

Prepared: 01/10/24 Analyzed: 01/11/24

Chromium, Hexavalent      32.8      0.30 mg/kg dry      31.2      ND      105      75-125

**Matrix Spike Dup (BHA0379-MSD1)**

**Source: 2311073-01**

Prepared: 01/10/24 Analyzed: 01/11/24

Chromium, Hexavalent      32.2      0.30 mg/kg dry      31.2      ND      103      75-125      1.73      20

Summit Scientific

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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 13:16

**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 BHA0438 - General Preparation**

**Blank (BHA0438-BLK1)**

Prepared: 01/11/24 Analyzed: 01/16/24

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

**LCS (BHA0438-BS1)**

Prepared: 01/11/24 Analyzed: 01/16/24

Calcium	5.65	0.0500	mg/L wet	5.00		113	70-130			
Magnesium	5.11	0.0500	"	5.00		102	70-130			
Sodium	5.09	0.0500	"	5.00		102	70-130			

Summit Scientific

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Project: Noble - Shable USX AB11-14P

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 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 13:16

**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 BHA0331 - General Preparation**


**Duplicate (BHA0331-DUP1)**

**Source: 2401124-01**

Prepared & Analyzed: 01/09/24

% Solids	82.4		%		82.5			0.0548	20	
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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 13:16

**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 BHA0465 - General Preparation**

<b>Blank (BHA0465-BLK1)</b>		Prepared & Analyzed: 01/12/24									
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
<b>LCS (BHA0465-BS1)</b>		Prepared & Analyzed: 01/12/24									
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	0.150		99.7	95-105				
<b>LCS (BHA0465-BS2)</b>		Prepared & Analyzed: 01/12/24									
Specific Conductance (EC)	0.149	0.0100	mmhos/cm	0.150		99.2	95-105				
<b>LCS (BHA0465-BS3)</b>		Prepared & Analyzed: 01/12/24									
Specific Conductance (EC)	0.147	0.0100	mmhos/cm	0.150		98.1	95-105				
<b>LCS (BHA0465-BS4)</b>		Prepared & Analyzed: 01/12/24									
Specific Conductance (EC)	0.146	0.0100	mmhos/cm	0.150		97.3	95-105				
<b>Duplicate (BHA0465-DUP1)</b>		<b>Source: 2311396-08</b>		Prepared & Analyzed: 01/12/24							
Specific Conductance (EC)	0.118	0.0100	mmhos/cm		0.119			0.931	20		

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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/18/24 13:16

**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 BHA0466 - General Preparation**

<b>LCS (BHA0466-BS1)</b>		Prepared & Analyzed: 01/12/24								
pH	9.18		pH Units	9.18		100		95-105		
<b>LCS (BHA0466-BS2)</b>		Prepared & Analyzed: 01/12/24								
pH	9.15		pH Units	9.18		99.7		95-105		
<b>LCS (BHA0466-BS3)</b>		Prepared & Analyzed: 01/12/24								
pH	9.15		pH Units	9.18		99.7		95-105		
<b>LCS (BHA0466-BS4)</b>		Prepared & Analyzed: 01/12/24								
pH	9.13		pH Units	9.18		99.5		95-105		
<b>Duplicate (BHA0466-DUP1)</b>		<b>Source: 2311396-08</b>		Prepared & Analyzed: 01/12/24						
pH	7.74		pH Units			8.00		3.30	20	

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Project: Noble - Shable USX AB11-14P

Project Number: UWRWE-A3428-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/18/24 13:16

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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