

# **FREMONT ENVIRONMENTAL INC.**

October 27, 2023

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

Subject:           **Facility Closure Data Submittal**  
Degenhart USX AE-66N62W 17NWNW  
NWNW Sec. 17, T6N, R62W  
Weld County, Colorado  
Fremont Project No. C023-273  
Facility # 310864, Remediation # 30318

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted facility closure activities for the Noble Energy Inc. (Noble) Degenhart USX AE-66N62W 17NWNW. Impacted soil was encountered during abandonment activities. Details of the Degenhart USX AE-66N62W 17NWNW facility closure activities are documented in the attached Closure Report. Groundwater was not encountered during facility abandonment activities.

Please contact me at (603) 477-6907 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

**FREMONT ENVIRONMENTAL INC.**



Ethan D. Black, PG  
Consultant

Attachments:

Facility Closure Checklist  
Tables  
Figures  
Photos  
Laboratory Report

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

# Tank Battery Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number:		Date:						Remediation Project #:
Associated Wells:		Age of Site:						Number of Photos Attached:
Location: (GPS coordinates of southeaster berm)								Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
USCS Soil Type:					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
<b>Tanks</b>								
Tank Contents								
Size (barrels)								
Age								
Construction Material								
Tank type (AST/DRU, etc.)								
Visual Integrity of Tank								
Condition of tank footprint								
PID Readings								
Soil impacts present at valves or hatches?								
PID Readings								
Sample taken? Location/ Sample ID#								
Photo Number(s)								
Other observations regarding tanks:								
<b>Separators</b>								
Separator size								
Vertical or Horizontal								
Age								
Soil impacts observed? If yes,								
PID Readings								
Sample taken? Location/ Sample ID#								
Photo Number(s)								
Other observations regarding separators								
<b>Third Party Equipment</b>								
Type								
Age								

Third Party														
Removal Date														
Sample taken?														
PID Readings														
Photo Number(s)														
<b>Other Facility Equipment</b>														
Equipment type														
Equipment Condition														
Age														
Soil impacts observed during														
PID Readings														
Sample taken?														
Photo Number(s)														
Other observations regarding other facility or third party equipment:														
<b>Summary</b>														
Was impacted soil identified?														
<div> <div>No</div> <div>Yes - less than 10 cubic yards</div> <div>Yes - more than 10 cubic yards</div> </div>														
Total number of samples field screened:					Total number of samples collected:									
Highest PID Reading:					Total number of samples submitted to lab for analysis:									
If more than 10 cubic yards of impacted soil were observed:														
Vertical extent:					Estimated spill volume:									
Lateral extent:					Volume of soil removed:									
Is additional investigation required?														
Was groundwater encountered during the investigation?														
<div> <div>No</div> <div>Yes - not impacted or in contact with impacted soils</div> <div>Yes - groundwater impacted and/or in contact with impacted soils</div> </div>														
Measured depth to groundwater:					Was remedial groundwater removal conducted?      Yes      No									
Date Groundwater was encountered:					Commencement date of removal:									
Sheen on groundwater?      Yes      No					Volume of groundwater removed prior to sampling:									
Free product observed?      Yes      No					Volume of groundwater removed post sampling:									
Total number of samples collected:					Total Volume of groundwater removed:									
Total number of samples submitted to lab for analysis:														

## Buried or Partially Buried Vessel Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Tank Battery Closure
Site Name & COGCC Facility Number:		Date:						Remediation Project #:
Associated Wells:		Age of Site:						Number of Photos Attached:
Location: (GPS coordinates of vault or southeastern tank berm for multiple)								Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
USCS Soil Type:					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
<b>Buried or Partially Buried Vessels</b>								
Tank Contents								
Size (barrels)								
Age								
Construction Material								
Visual Integrity of Tank								
Condition of tank Foundation								
PID Readings								
Condition of Access Line								
PID Readings								
Sample taken? Location/Sample ID#								
Photo Number(s)								
Other observations regarding partially buried vessels:								
<b>Summary</b>								
Was impacted soil identified? <div style="display: flex; justify-content: space-between;"> <span>No</span> <span>Yes - less than 10 cubic yards</span> <span>Yes - more than 10 cubic yards</span> </div>								
Total number of samples field screened:					Total number of samples collected:			
Highest PID Reading:					Total number of samples submitted to lab for analysis:			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required?								
Was groundwater encountered during the investigation? <div style="display: flex; justify-content: space-between;"> <span>No</span> <span>Yes - not impacted or in contact with impacted soils</span> <span>Yes - groundwater impacted and/or in contact with impacted soils</span> </div>								
Measured depth to groundwater:					Was remedial groundwater removal conducted?    Yes    No			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater?                      Yes                      No					Volume of groundwater removed prior to sampling:			
Free product observed?                      Yes                      No					Volume of groundwater removed post sampling:			
Total number of samples collected:					Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:								

**TABLE 1**  
**SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**DEGENHART USX AE 66N62W 17NWNW , WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-273**

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**		
AST E CEN. SURF.	10/25/2023	Surface	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
AST W CEN. SURF.	10/25/2023	Surface	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
DL RISER 3FT	10/25/2023	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
FL SEP. RISER 3FT	10/25/2023	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
PWV FLOOR 4FT	10/25/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<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.  
DEGENHART USX AE 66N62W 17NWNW , WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C023-273

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
AST E CEN. SURF.	10/25/2023	Surface	<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
AST W CEN. SURF.	10/25/2023	Surface	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00529	<0.00500	<0.00500	0.0332	0.0342
DL RISER 3FT	10/25/2023	3	<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
FL SEP. RISER 3FT	10/25/2023	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV FLOOR 4FT	10/25/2023	4	<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.**  
**DEGENHART USX AE 66N62W 17NWNW , WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-273**

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
AST E CEN. SURF.	10/25/2023	Surface	7.75	0.185	0.111	<2.00
AST W CEN. SURF.	10/25/2023	Surface	6.99	0.226	0.304	<2.00
DL RISER 3FT	10/25/2023	3	<b>8.65</b>	0.206	0.879	<2.00
FL SEP. RISER 3FT	10/25/2023	3	<b>8.34</b>	0.124	0.0413	<2.00
PWV FLOOR 4FT	10/25/2023	4	8.30	0.121	0.0327	<2.00
BKG-1 Surface	10/26/2023	Surface	7.94	0.88	2.22	<2.00
BKG-1 3FT	10/26/2023	3	8.02	0.248	0.0715	<2.00
BKG-1 4FT	10/26/2023	4	<b>8.55</b>	0.136	0.0473	<2.00
BKG-2 Surface	10/26/2023	Surface	<b>8.62</b>	0.12	0.0527	<2.00
BKG-2 3FT	10/26/2023	3	<b>5.06</b>	0.105	0.0465	<2.00
BKG-2 4FT	10/26/2023	4	7.24	0.428	0.123	<2.00
BKG-3 Surface	10/26/2023	Surface	<b>8.39</b>	0.348	0.814	<2.00
BKG-3 3FT	10/26/2023	3	<b>8.55</b>	0.161	0.0489	<2.00
BKG-3 4FT	10/26/2023	4	8.00	0.524	0.44	<2.00
BKG-4 Surface	10/26/2023	Surface	8.24	0.394	0.47	<2.00
BKG-4 3FT	10/26/2023	3	<b>8.58</b>	0.169	0.178	<2.00
BKG-4 4FT	10/26/2023	4	7.75	0.108	0.0567	<2.00
BKG-5 Surface	10/26/2023	Surface	8.15	0.318	0.488	<2.00
BKG-5 3FT	10/26/2023	3	7.75	1.51	0.94	<2.00
BKG-5 4FT	10/26/2023	4	7.76	0.116	0.046	<2.00

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

Green highlighted cells indicate soil removed via excavation

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

NA - Not analyzed

TABLE 4  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
DEGENHART USX AE 66N62W 17NWNW , WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C023-273

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
AST E CEN. SURF.	10/25/2023	Surface	0.824	29.8	<0.200	<0.30	1.77	3.47	1.02	<0.260	<0.0200	6.2
AST W CEN. SURF.	10/25/2023	Surface	0.693	25.3	<0.200	<0.30	1.46	1.83	0.979	<0.260	<0.0200	3.76
DL RISER 3FT	10/25/2023	3	0.771	64.4	<0.200	<0.30	1.3	4.51	1.36	<0.260	<0.0200	4.99
FL SEP. RISER 3FT	10/25/2023	3	1.33	90	<0.200	<0.30	3.85	9.73	2.11	0.26	0.0298	7.65
PWV FLOOR 4FT	10/25/2023	4	1.5	123	<0.200	<0.30	1.66	5.56	1.72	<0.260	<0.0200	6.08
BKG-1 Surface	10/26/2023	Surface	<b>0.916</b>	49	<0.200	<0.30	1.75	5.43	1.31	<0.260	<0.0200	4.77
BKG-1 3FT	10/26/2023	3	<b>0.967</b>	50.8	<0.200	<0.30	1.48	3.43	1.47	<0.260	<0.0200	5.15
BKG-1 4FT	10/26/2023	4	<b>0.839</b>	48.6	<0.200	<0.30	1.43	3.74	1.16	<0.260	<0.0200	4.18
BKG-2 Surface	10/26/2023	Surface	<b>1.62</b>	66.7	<0.200	<0.30	2.53	4.2	1.73	<0.260	<0.0200	5.65
BKG-2 3FT	10/26/2023	3	<b>0.974</b>	35.4	<0.200	<0.30	1.21	4.81	1.12	<0.260	<0.0200	5.12
BKG-2 4FT	10/26/2023	4	<b>0.993</b>	48.7	<0.200	<0.30	1.21	4.32	1.44	<0.260	<0.0200	4.85
BKG-3 Surface	10/26/2023	Surface	<b>1.2</b>	52.3	<0.200	<0.30	1.28	5.03	1.36	<0.260	<0.0200	4.74
BKG-3 3FT	10/26/2023	3	<b>1.5</b>	<b>170</b>	0.217	<0.30	1.23	4.21	2.02	<0.260	0.0257	4.61
BKG-3 4FT	10/26/2023	4	<b>1.3</b>	70.1	<0.200	<0.30	1.79	6.01	1.82	<0.260	<0.0200	6.11
BKG-4 Surface	10/26/2023	Surface	<b>1.31</b>	<b>114</b>	<0.200	<0.30	1.86	5.41	2.35	<0.260	<0.0200	5.55
BKG-4 3FT	10/26/2023	3	<b>0.898</b>	<b>150</b>	<0.200	<0.30	1.36	4.94	1.75	<0.260	0.0276	5.53
BKG-4 4FT	10/26/2023	4	<b>0.69</b>	29.1	<0.200	<0.30	0.816	2.64	1.14	<0.260	<0.0200	3.96
BKG-5 Surface	10/26/2023	Surface	<b>1.02</b>	36.8	<0.200	<0.30	1.33	5.14	1.31	<0.260	<0.0200	4.67
BKG-5 3FT	10/26/2023	3	<b>1.13</b>	62	<0.200	<0.30	1.98	11.2	1.51	<0.260	<0.0200	5.53
BKG-5 4FT	10/26/2023	4	<b>0.643</b>	25.2	<0.200	<0.30	0.775	2.28	1.06	<0.260	<0.0200	3.72
Max. Background Concentration			<b>1.62</b>	<b>170</b>	NA	NA	NA	NA	NA	NA	NA	NA
125% Max. Background Concentration			<b>2.0</b>	<b>213</b>	NA	NA	NA	NA	NA	NA	NA	NA

Bold faced values exceed the ECMC Table 915-1 concentrations

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

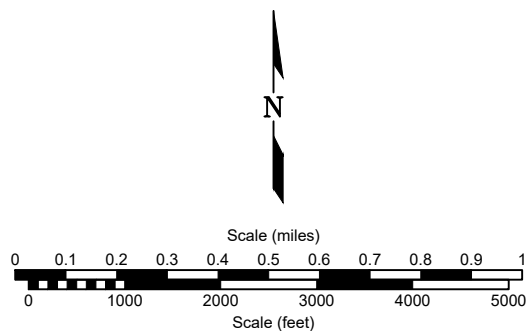
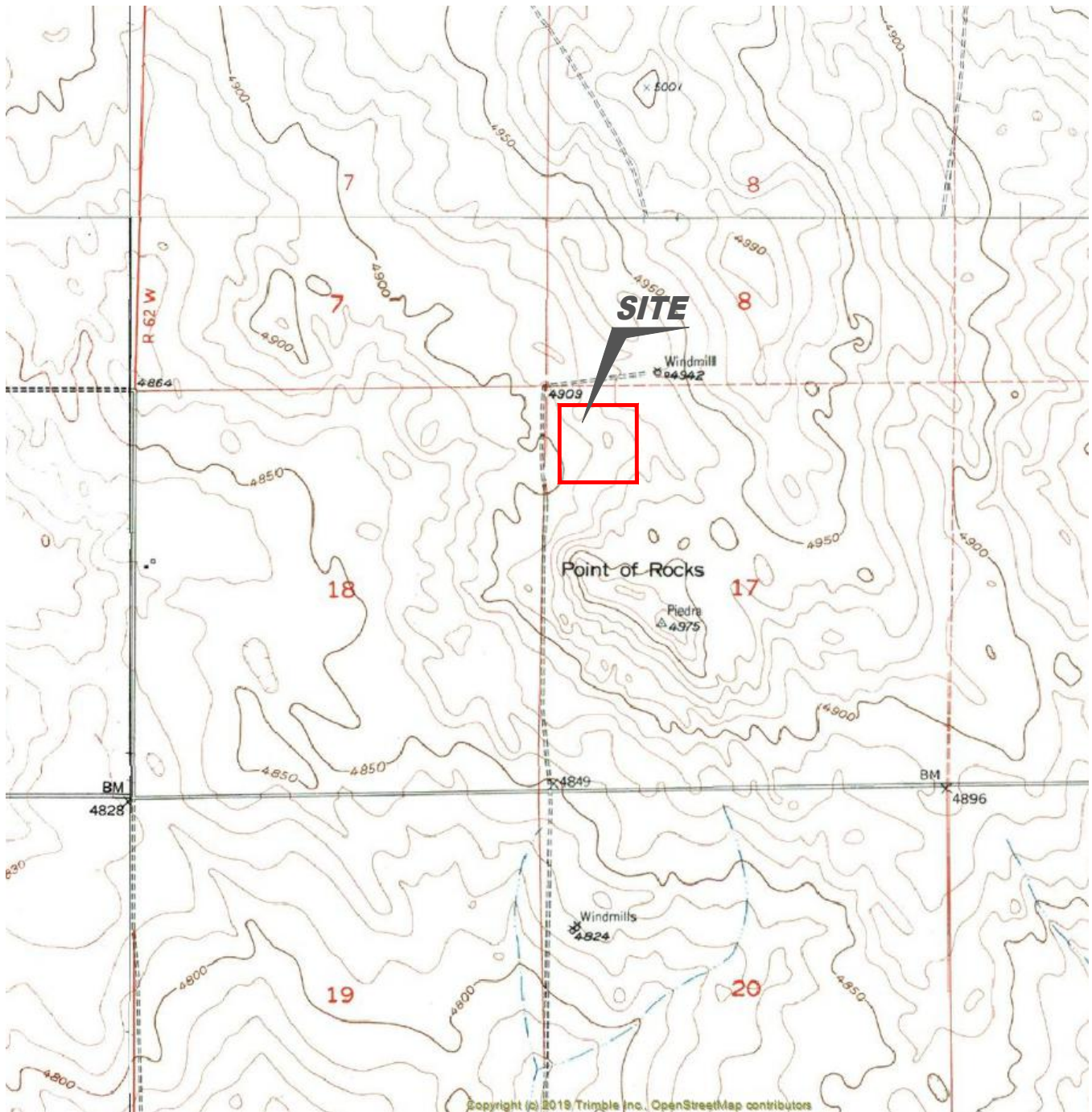
\* Indicates laboratory minimum detection limit in excess of SSL

Orange highlighted cells indicate soil concentrations exceeding 125% of the maximum background concentration

Green highlighted cells indicate soil removed via excavation

NA - Not analyzed





USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1

**SITE LOCATION MAP**

**Noble Energy, Inc.**  
**Degenhart USX AE-66N-62W 17NWNW**  
 NWNW Section 17, T6N, R62W, 6th PM  
 Weld County, Colorado  
 40.4903187°, -104.3525015°

Project No. <b>C023-273</b>	API #	Facility # <b>310864</b>
Date <b>01/03/2024</b>	Remediation # <b>30318</b>	Filename <b>23273T</b>





#### LEGEND

▼ PID READING LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	CONTAINMENT BERM
			CONTAINMENT WALL
			FENCE LINE
			EXTENT OF EXCAVATION

W Loadout  
PID 0.0  
SAMPLE IDENTIFICATION AND DEPTH (ft)  
PHOTO IONIZATION DETECTION / PARTS PER MILLION

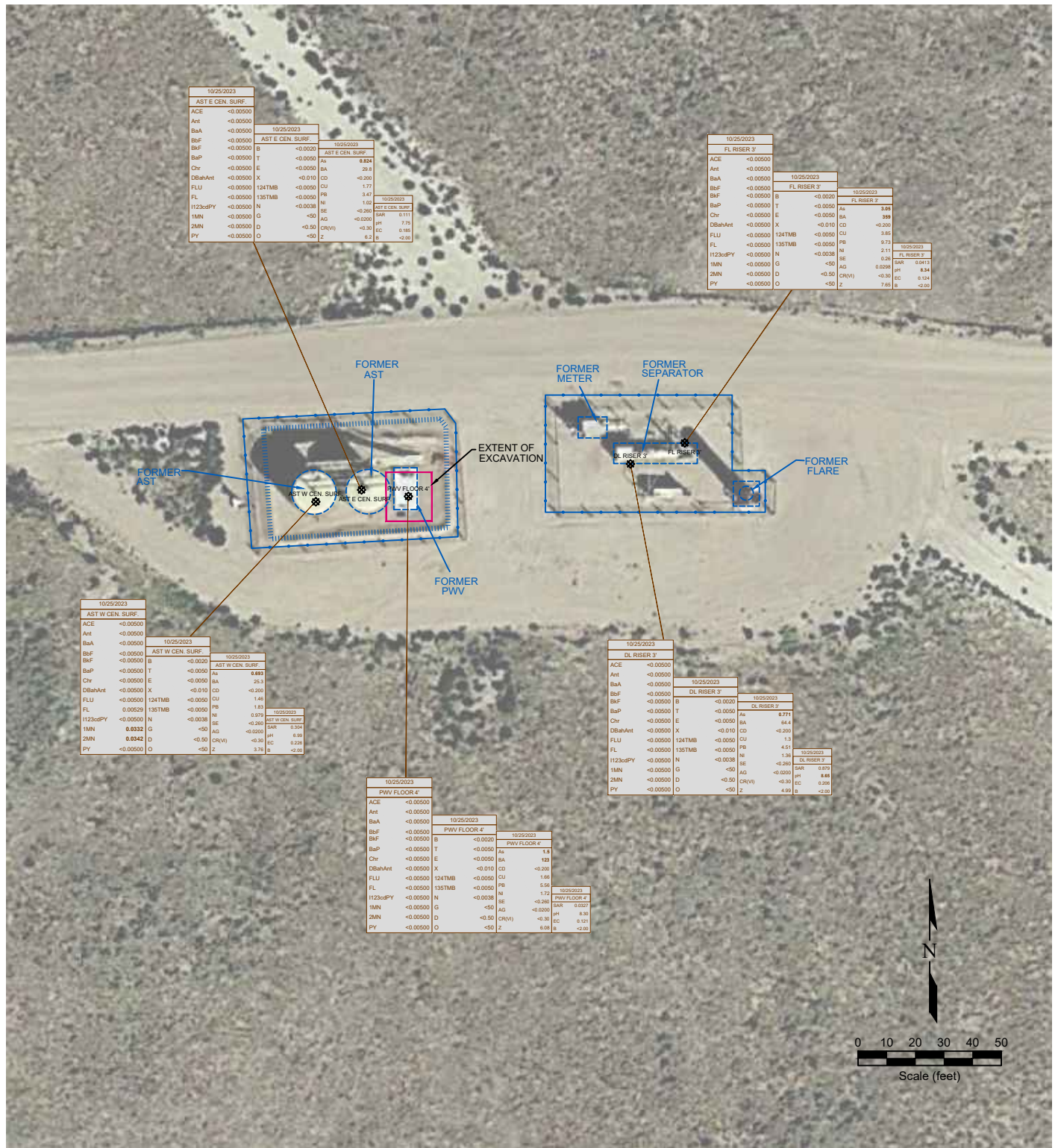
Figure 2

#### SITE MAP

**Noble Energy, Inc.**  
**Degenhart USX AE-66N-62W 17NNW**  
 NNNW Section 17, T6N, R62W, 6th PM  
 Weld County, Colorado  
 40.4903187°, -104.3525015°

Project No. <b>C023-273</b>	API #	Facility # <b>310864</b>	
Date <b>01/03/2024</b>	Remediation # <b>30318</b>	Filename <b>23273T</b>	





LEGEND			
	SOIL SAMPLE LOCATION		ABOVE GROUND STORAGE TANK
	FORMER FACILITY		CONTAINMENT BERM
	CONTAINMENT WALL		FENCE LINE
	EXTENT OF EXCAVATION		

DATE SAMPLED	SAMPLE ID AND DEPTH (ft)	DATE SAMPLED	SAMPLE ID AND DEPTH (ft)
10/25/2023	AST E CEN. SURF.	10/25/2023	AST E CEN. SURF.
ACE	<0.00500	ACE	<0.00500
Ant	<0.00500	Ant	<0.00500
BaA	<0.00500	BaA	<0.00500
BaF	<0.00500	BaF	<0.00500
BaP	<0.00500	BaP	<0.00500
Chr	<0.00500	Chr	<0.00500
DBaAnt	<0.00500	DBaAnt	<0.00500
FLU	<0.00500	FLU	<0.00500
1123cdPY	<0.00500	1123cdPY	<0.00500
1MN	<0.00500	1MN	<0.00500
2MN	<0.00500	2MN	<0.00500
PY	<0.00500	PY	<0.00500

DATE SAMPLED	SAMPLE ID AND DEPTH (ft)	DATE SAMPLED	SAMPLE ID AND DEPTH (ft)
10/25/2023	AST W CEN. SURF.	10/25/2023	AST W CEN. SURF.
ACE	<0.00500	ACE	<0.00500
Ant	<0.00500	Ant	<0.00500
BaA	<0.00500	BaA	<0.00500
BaF	<0.00500	BaF	<0.00500
BaP	<0.00500	BaP	<0.00500
Chr	<0.00500	Chr	<0.00500
DBaAnt	<0.00500	DBaAnt	<0.00500
FLU	<0.00500	FLU	<0.00500
1123cdPY	<0.00500	1123cdPY	<0.00500
1MN	<0.00500	1MN	<0.00500
2MN	<0.00500	2MN	<0.00500
PY	<0.00500	PY	<0.00500

DATE SAMPLED	SAMPLE ID AND DEPTH (ft)	DATE SAMPLED	SAMPLE ID AND DEPTH (ft)
10/25/2023	PW FLOOR 4	10/25/2023	PW FLOOR 4
ACE	<0.00500	ACE	<0.00500
Ant	<0.00500	Ant	<0.00500
BaA	<0.00500	BaA	<0.00500
BaF	<0.00500	BaF	<0.00500
BaP	<0.00500	BaP	<0.00500
Chr	<0.00500	Chr	<0.00500
DBaAnt	<0.00500	DBaAnt	<0.00500
FLU	<0.00500	FLU	<0.00500
1123cdPY	<0.00500	1123cdPY	<0.00500
1MN	<0.00500	1MN	<0.00500
2MN	<0.00500	2MN	<0.00500
PY	<0.00500	PY	<0.00500

DATE SAMPLED	SAMPLE ID AND DEPTH (ft)	DATE SAMPLED	SAMPLE ID AND DEPTH (ft)
10/25/2023	DL RISER 3	10/25/2023	DL RISER 3
ACE	<0.00500	ACE	<0.00500
Ant	<0.00500	Ant	<0.00500
BaA	<0.00500	BaA	<0.00500
BaF	<0.00500	BaF	<0.00500
BaP	<0.00500	BaP	<0.00500
Chr	<0.00500	Chr	<0.00500
DBaAnt	<0.00500	DBaAnt	<0.00500
FLU	<0.00500	FLU	<0.00500
1123cdPY	<0.00500	1123cdPY	<0.00500
1MN	<0.00500	1MN	<0.00500
2MN	<0.00500	2MN	<0.00500
PY	<0.00500	PY	<0.00500

DATE SAMPLED	SAMPLE ID AND DEPTH (ft)	DATE SAMPLED	SAMPLE ID AND DEPTH (ft)
10/25/2023	FL RISER 3	10/25/2023	FL RISER 3
ACE	<0.00500	ACE	<0.00500
Ant	<0.00500	Ant	<0.00500
BaA	<0.00500	BaA	<0.00500
BaF	<0.00500	BaF	<0.00500
BaP	<0.00500	BaP	<0.00500
Chr	<0.00500	Chr	<0.00500
DBaAnt	<0.00500	DBaAnt	<0.00500
FLU	<0.00500	FLU	<0.00500
1123cdPY	<0.00500	1123cdPY	<0.00500
1MN	<0.00500	1MN	<0.00500
2MN	<0.00500	2MN	<0.00500
PY	<0.00500	PY	<0.00500

Figure 3

## SOIL CHEMISTRY MAP

**Noble Energy, Inc.**  
**Degenhart USX AE-66N-62W 17NWNW**  
 NWNW Section 17, T6N, R62W, 6th PM  
 Weld County, Colorado  
 40.4903187°, -104.3525015°

Project No. <b>C023-273</b>	API #	Facility # <b>310864</b>
Date <b>2/8/24</b>	Remediation # <b>30318</b>	Filename <b>23273T</b>

## Photo Log



### Description:

1 - Degenhart USX AE 66N62W 17NWNW tank battery AST footprint, looking east

## Photo Log



### Description:

2 - Degenhart USX AE 66N62W 17NWNW tank battery AST footprint, looking north



## Photo Log



### Description:

3 - Degenhart USX AE 66N62W 17NWNW tank battery ASTs following removal

## Photo Log



### Description:

4 - Degenhart USX AE 66N62W 17NWNW tank battery separator dumpline riser

## Photo Log



### Description:

5 - Degenhart USX AE 66N62W 17NWNW tank battery separator footprint

## Photo Log



### Description:

6 - Degenhart USX AE 66N62W 17NWNW tank battery ECD footprint, looking NW



## Photo Log



**Description:**

7 - Degenhart USX AE 66N62W 17NWNW tank battery meter skid, looking NW

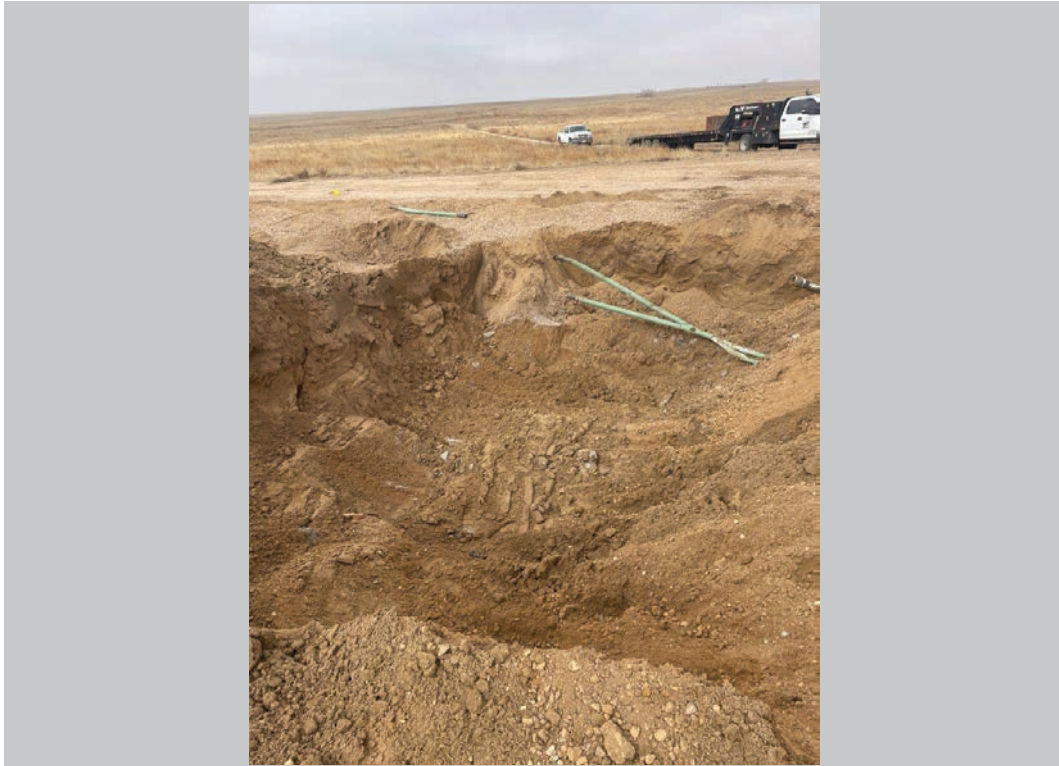
## Photo Log



**Description:**

8 - Degenhart USX AE 66N62W 17NWNW tank battery flowline riser at the separator

## Photo Log



***Description:***

9 - Degenhart USX AE 66N62W 17NWNW tank battery produced water vault with dumplines visible



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 03, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Degenhart USX AE 63N62W

Work Order #2310555

Enclosed are the results of analyses for samples received by Summit Scientific on 10/27/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL SEP. RISER 3FT	2310555-01	Soil	10/25/23 00:00	10/27/23 16:30
DL RISER 3FT	2310555-02	Soil	10/25/23 00:00	10/27/23 16:30
PWV FLOOR 4FT	2310555-03	Soil	10/25/23 00:00	10/27/23 16:30
AST E CEN. SURF.	2310555-04	Soil	10/25/23 00:00	10/27/23 16:30
AST W CEN. SURF.	2310555-05	Soil	10/25/23 00:00	10/27/23 16:30

Summit Scientific

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

# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2310555	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: Chevron	
Address: 8305 6th St.	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: Noble - Decenhart USX AE (2N62W)	PO/Billing Codes: UWRWE - A3383 - ARN	
Sampler Name: Ethan Black	Project Number: C023-273	Contact: Mike Montoya	

					Preservative				Matrix				Analysis Requested						Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	Metals (915-1)	
1	FL SEP. RISER 3FT	10/25/23		2			X			X			X	X	X	X		X	
2	DL RISER 3FT	I		I			I			I			I	I	I	I		I	
3	PWV FLOOR 4FT	I		I			I			I			I	I	I	I		I	
4	AST E CEN. SURF	I		I			I			I			I	I	I	I		I	
5	AST W CEN. SURF.	I		I			I			I			I	I	I	I		I	
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>Ethan Black</i>	Date/Time: 10/24/23 1534	Received by: S2 - North Office	Date/Time: 10/24/23 1534	TAT Business Days	Field DO	Notes:
Relinquished by: S2	Date/Time: 10/27/23 1630	Received by: <i>[Signature]</i>	Date/Time: 10/27/23 1630	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 19.9	Corrected Temperature: <i>E</i>	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2310555Client: FreemontClient Project ID: Noble-Degenhart USX AE 62N102WShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:                     

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐Temp (°C) 14.9Thermometer # 1

	Yes	No	N/A	Comments (If any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	no time stamps
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? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <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"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.Custodian Printed Name ASDate/Time 10/27/23



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**FL SEP. RISER 3FT**  
**2310555-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ1208	10/30/23	11/01/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ1210	10/30/23	11/01/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.18	49.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/25/23 00:00**

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**FL SEP. RISER 3FT**  
**2310555-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1164	10/30/23	10/31/23	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: **10/25/23 00:00**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0176	52.8 %	40-150		"	"	"	"	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0120	11/03/23	11/08/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	ND	0.200	mg/kg dry	1	BGK0144	11/05/23	11/08/23	EPA 6020B	
Copper	3.85	0.400	"	"	"	"	"	"	
Lead	9.73	0.200	"	"	"	"	"	"	
Nickel	2.11	0.400	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**FL SEP. RISER 3FT**  
**2310555-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Silver	0.0298	0.0200	mg/kg dry	1	BGK0144	11/05/23	11/08/23	EPA 6020B
Zinc	7.65	0.400	"	"	"	"	"	"
Selenium	0.260	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1263	10/31/23	11/01/23	EPA 7196A	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	86.6	0.0500	mg/L dry	1	BGK0091	11/02/23	11/07/23	EPA 6020B	
Magnesium	12.3	0.0500	"	"	"	"	"	"	
Sodium	1.55	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0413	0.00100	units	1	BGK0280	11/08/23	11/08/23	Calculation	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BGK0104	11/03/23	11/03/23	Calculation	

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**FL SEP. RISER 3FT**  
**2310555-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.124</b>	0.0100		mmhos/cm	1	BGK0124	11/03/23	11/03/23	EPA 120.1	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**FL SEP. RISER 3FT**  
**2310555-01 (Soil)**

**Summit Scientific**

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

**I-04**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg	1	BGK0457	11/13/23	11/13/23	EPA 8260B	
Naphthalene	ND	0.0038	"	"	"	"	"	"	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0428	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0454	114 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0449	112 %	50-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.33	0.200	mg/kg dry	1	BGK1086	11/05/23	11/30/23	EPA 6020B	
Barium	90.0	0.400	"	"	"	"	"	"	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BGK0578	11/03/23	11/15/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**DL RISER 3FT**  
**2310555-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGJ1208	10/30/23	11/01/23	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: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ1210	10/30/23	11/01/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.39	59.1 %	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 - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**DL RISER 3FT**  
**2310555-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1164	10/30/23	10/31/23	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: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0140	42.0 %	40-150		"	"	"	"	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0120	11/03/23	11/08/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/25/23 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 - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**DL RISER 3FT**  
**2310555-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.771	0.200	mg/kg dry	1	BGK0144	11/05/23	11/08/23	EPA 6020B
Barium	64.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.30	0.400	"	"	"	"	"	"
Lead	4.51	0.200	"	"	"	"	"	"
Nickel	1.36	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.99	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1263	10/31/23	11/01/23	EPA 7196A	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	106	0.0500	mg/L dry	1	BGK0091	11/02/23	11/07/23	EPA 6020B	
Magnesium	10.8	0.0500	"	"	"	"	"	"	
Sodium	35.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.879	0.00100	units	1	BGK0280	11/08/23	11/08/23	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**DL RISER 3FT**  
**2310555-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	90.0			%	1	BGK0104	11/03/23	11/03/23	Calculation	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.206	0.0100		mmhos/cm	1	BGK0124	11/03/23	11/03/23	EPA 120.1	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**DL RISER 3FT**  
**2310555-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.65</b>			pH Units	1	BGK0578	11/03/23	11/15/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**PWV FLOOR 4FT**  
**2310555-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGJ1208	10/30/23	11/01/23	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: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0414	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ1210	10/30/23	11/01/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.88	71.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**PWV FLOOR 4FT**  
**2310555-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1164	10/30/23	10/31/23	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: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0178	53.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0204	61.1 %	40-150		"	"	"	"	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0120	11/03/23	11/08/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/25/23 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 - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**PWV FLOOR 4FT**  
**2310555-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.50	0.200	mg/kg dry	1	BGK0144	11/05/23	11/08/23	EPA 6020B
Barium	123	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.66	0.400	"	"	"	"	"	"
Lead	5.56	0.200	"	"	"	"	"	"
Nickel	1.72	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	6.08	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1263	10/31/23	11/01/23	EPA 7196A	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.1	0.0500	mg/L dry	1	BGK0091	11/02/23	11/07/23	EPA 6020B	
Magnesium	9.73	0.0500	"	"	"	"	"	"	
Sodium	0.972	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0327	0.00100	units	1	BGK0280	11/08/23	11/08/23	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**PWV FLOOR 4FT**  
**2310555-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.4		%	1	BGK0104	11/03/23	11/03/23	Calculation	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.121	0.0100	mmhos/cm	1	BGK0124	11/03/23	11/03/23	EPA 120.1	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BGK0125	11/03/23	11/03/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**AST E CEN. SURE.**  
**2310555-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGJ1208	10/30/23	11/01/23	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: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ1210	10/30/23	11/01/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.61	60.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**AST E CEN. SURF.**  
**2310555-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1164	10/30/23	10/31/23	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: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0171	51.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0236	70.9 %	40-150		"	"	"	"	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0120	11/03/23	11/08/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**AST E CEN. SURF.**  
**2310555-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.824	0.200	mg/kg dry	1	BGK0144	11/05/23	11/08/23	EPA 6020B
Barium	29.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.77	0.400	"	"	"	"	"	"
Lead	3.47	0.200	"	"	"	"	"	"
Nickel	1.02	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	6.16	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1263	10/31/23	11/01/23	EPA 7196A	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.5	0.0500	mg/L dry	1	BGK0091	11/02/23	11/07/23	EPA 6020B	
Magnesium	7.58	0.0500	"	"	"	"	"	"	
Sodium	2.35	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.111	0.00100	units	1	BGK0280	11/08/23	11/08/23	Calculation	

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

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**AST E CEN. SURF.**  
**2310555-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.8		%	1	BGK0104	11/03/23	11/03/23	Calculation	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.185	0.0100	mmhos/cm	1	BGK0124	11/03/23	11/03/23	EPA 120.1	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.75		pH Units	1	BGK0125	11/03/23	11/03/23	EPA 9045D	

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**AST W CEN. SURF.**  
**2310555-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGJ1208	10/30/23	11/01/23	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	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0406	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0423	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ1210	10/30/23	11/01/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	5.68	45.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**AST W CEN. SURF.**  
**2310555-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ1164	10/30/23	10/31/23	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.00529</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0230	69.1 %	40-150		"	"	"	"	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0120	11/03/23	11/08/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Arsenic</b>	<b>0.693</b>	0.200	mg/kg dry	1	BGK0144	11/05/23	11/08/23	EPA 6020B	
<b>Barium</b>	<b>25.3</b>	0.400	"	"	"	"	"	"	

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**AST W CEN. SURF.**  
**2310555-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Cadmium	ND	0.200	mg/kg dry	1	BGK0144	11/05/23	11/08/23	EPA 6020B
<b>Copper</b>	<b>1.46</b>	0.400	"	"	"	"	"	"
<b>Lead</b>	<b>1.83</b>	0.200	"	"	"	"	"	"
<b>Nickel</b>	<b>0.979</b>	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
<b>Zinc</b>	<b>3.76</b>	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ1263	10/31/23	11/01/23	EPA 7196A	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>21.7</b>	0.0500	mg/L dry	1	BGK0091	11/02/23	11/07/23	EPA 6020B	
<b>Magnesium</b>	<b>6.12</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>6.23</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.304</b>	0.00100	units	1	BGK0280	11/08/23	11/08/23	Calculation	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>98.1</b>		%	1	BGK0104	11/03/23	11/03/23	Calculation	

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Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**AST W CEN. SURF.**  
**2310555-05 (Soil)**

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

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.226</b>	0.0100		mmhos/cm	1	BGK0124	11/03/23	11/03/23	EPA 120.1	

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

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>6.99</b>			pH Units	1	BGK0125	11/03/23	11/03/23	EPA 9045D	

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Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**AST W CEN. SURF.**  
**2310555-05 (Soil)**

**Summit Scientific**

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

**I-04**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0038	mg/kg	1	BGK0460	11/13/23	11/14/23	EPA 8260B	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0429	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0377	94.4 %	50-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	0.0332	0.00500	mg/kg	1	BGK0375	10/30/23	11/11/23	EPA 8270D SIM	
2-Methylnaphthalene	0.0342	0.00500	"	"	"	"	"	"	

Date Sampled: **10/25/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0145	43.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.4 %	40-150		"	"	"	"	

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BGJ1208 - EPA 5030 Soil MS

##### Blank (BGJ1208-BLK1)

Prepared: 10/30/23 Analyzed: 10/31/23

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0469		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

##### LCS (BGJ1208-BS1)

Prepared: 10/30/23 Analyzed: 10/31/23

Benzene	0.0969	0.0020	mg/kg	0.100		96.9	70-130			
Toluene	0.125	0.0050	"	0.100		125	70-130			
Ethylbenzene	0.114	0.0050	"	0.100		114	70-130			
m,p-Xylene	0.222	0.010	"	0.200		111	70-130			
o-Xylene	0.111	0.0050	"	0.100		111	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130			
Naphthalene	0.118	0.0038	"	0.100		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0586		"	0.0400		146	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0454		"	0.0400		114	50-150			

##### Matrix Spike (BGJ1208-MS1)

Source: 2310548-01

Prepared: 10/30/23 Analyzed: 10/31/23

Benzene	0.108	0.0020	mg/kg	0.100	ND	108	70-130			
Toluene	0.103	0.0050	"	0.100	ND	103	70-130			
Ethylbenzene	0.0972	0.0050	"	0.100	ND	97.2	70-130			
m,p-Xylene	0.184	0.010	"	0.200	ND	91.9	70-130			
o-Xylene	0.0869	0.0050	"	0.100	ND	86.9	70-130			
1,2,4-Trimethylbenzene	0.0879	0.0050	"	0.100	ND	87.9	70-130			
1,3,5-Trimethylbenzene	0.0885	0.0050	"	0.100	ND	88.5	70-130			
Naphthalene	0.0954	0.0038	"	0.100	ND	95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0551		"	0.0400		138	50-150			
Surrogate: Toluene-d8	0.0427		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BGJ1208 - EPA 5030 Soil MS**

Matrix Spike Dup (BGJ1208-MSD1)		Source: 2310548-01		Prepared: 10/30/23 Analyzed: 10/31/23						
Benzene	0.113	0.0020	mg/kg	0.100	ND	113	70-130	4.57	30	
Toluene	0.0993	0.0050	"	0.100	ND	99.3	70-130	3.56	30	
Ethylbenzene	0.0949	0.0050	"	0.100	ND	94.9	70-130	2.34	30	
m,p-Xylene	0.179	0.010	"	0.200	ND	89.7	70-130	2.40	30	
o-Xylene	0.0874	0.0050	"	0.100	ND	87.4	70-130	0.551	30	
1,2,4-Trimethylbenzene	0.0852	0.0050	"	0.100	ND	85.2	70-130	3.15	30	
1,3,5-Trimethylbenzene	0.0872	0.0050	"	0.100	ND	87.2	70-130	1.50	30	
Naphthalene	0.0972	0.0038	"	0.100	ND	97.2	70-130	1.84	30	
Surrogate: 1,2-Dichloroethane-d4		0.0482	"	0.0400		121	50-150			
Surrogate: Toluene-d8		0.0422	"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene		0.0414	"	0.0400		104	50-150			

**Batch BGK0457 - EPA 5030 Soil MS**

Blank (BGK0457-BLK1)		Prepared & Analyzed: 11/13/23								
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	"							
Surrogate: 1,2-Dichloroethane-d4		0.0414	"	0.0400		104	50-150			
Surrogate: Toluene-d8		0.0452	"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene		0.0450	"	0.0400		113	50-150			

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BGK0457 - EPA 5030 Soil MS

##### LCS (BGK0457-BS1)

Prepared & Analyzed: 11/13/23

Benzene	0.152	0.0020	mg/kg	0.100		152	70-130			QLCS-01
Toluene	0.154	0.0050	"	0.100		154	70-130			QLCS-01
Ethylbenzene	0.0998	0.0050	"	0.100		99.8	70-130			
m,p-Xylene	0.196	0.010	"	0.200		98.0	70-130			
o-Xylene	0.0958	0.0050	"	0.100		95.8	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100		100	70-130			
Naphthalene	0.108	0.0038	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0460		"	0.0400		115	50-150			
Surrogate: 4-Bromofluorobenzene	0.0449		"	0.0400		112	50-150			

##### Matrix Spike (BGK0457-MS1)

Source: 2311144-23

Prepared & Analyzed: 11/13/23

Benzene	0.145	0.0020	mg/kg	0.100	ND	145	70-130			QM-07
Toluene	0.144	0.0050	"	0.100	ND	144	70-130			QM-07
Ethylbenzene	0.0890	0.0050	"	0.100	ND	89.0	70-130			
m,p-Xylene	0.174	0.010	"	0.200	ND	87.0	70-130			
o-Xylene	0.0846	0.0050	"	0.100	ND	84.6	70-130			
1,2,4-Trimethylbenzene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
1,3,5-Trimethylbenzene	0.0836	0.0050	"	0.100	ND	83.6	70-130			
Naphthalene	0.0804	0.0038	"	0.100	ND	80.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0462		"	0.0400		116	50-150			
Surrogate: 4-Bromofluorobenzene	0.0454		"	0.0400		114	50-150			

##### Matrix Spike Dup (BGK0457-MSD1)

Source: 2311144-23

Prepared & Analyzed: 11/13/23

Benzene	0.149	0.0020	mg/kg	0.100	ND	149	70-130	2.75	30	QM-07
Toluene	0.150	0.0050	"	0.100	ND	150	70-130	4.40	30	QM-07
Ethylbenzene	0.0948	0.0050	"	0.100	ND	94.8	70-130	6.37	30	
m,p-Xylene	0.183	0.010	"	0.200	ND	91.5	70-130	5.04	30	
o-Xylene	0.0904	0.0050	"	0.100	ND	90.4	70-130	6.55	30	
1,2,4-Trimethylbenzene	0.0876	0.0050	"	0.100	ND	87.6	70-130	5.45	30	
1,3,5-Trimethylbenzene	0.0886	0.0050	"	0.100	ND	88.6	70-130	5.78	30	
Naphthalene	0.0854	0.0038	"	0.100	ND	85.4	70-130	6.08	30	
Surrogate: 1,2-Dichloroethane-d4	0.0443		"	0.0400		111	50-150			
Surrogate: Toluene-d8	0.0460		"	0.0400		115	50-150			
Surrogate: 4-Bromofluorobenzene	0.0459		"	0.0400		115	50-150			

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BGK0460 - EPA 5030 Soil MS**

**Blank (BGK0460-BLK1)**

Prepared: 11/13/23 Analyzed: 11/14/23

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.7	50-150			

**LCS (BGK0460-BS1)**

Prepared: 11/13/23 Analyzed: 11/14/23

Benzene	0.0973	0.0020	mg/kg	0.100		97.3	70-130			
Toluene	0.0920	0.0050	"	0.100		92.0	70-130			
Ethylbenzene	0.0873	0.0050	"	0.100		87.3	70-130			
m,p-Xylene	0.173	0.010	"	0.200		86.4	70-130			
o-Xylene	0.0858	0.0050	"	0.100		85.8	70-130			
1,2,4-Trimethylbenzene	0.0855	0.0050	"	0.100		85.5	70-130			
1,3,5-Trimethylbenzene	0.0852	0.0050	"	0.100		85.2	70-130			
Naphthalene	0.0823	0.0038	"	0.100		82.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.3	50-150			

**Matrix Spike (BGK0460-MS1)**

Source: 2311233-01

Prepared: 11/13/23 Analyzed: 11/14/23

Benzene	0.104	0.0020	mg/kg	0.100	ND	104	70-130			
Toluene	0.0884	0.0050	"	0.100	ND	88.4	70-130			
Ethylbenzene	0.0917	0.0050	"	0.100	ND	91.7	70-130			
m,p-Xylene	0.176	0.010	"	0.200	ND	87.8	70-130			
o-Xylene	0.0871	0.0050	"	0.100	ND	87.1	70-130			
1,2,4-Trimethylbenzene	0.0714	0.0050	"	0.100	ND	71.4	70-130			
1,3,5-Trimethylbenzene	0.0718	0.0050	"	0.100	ND	71.8	70-130			
Naphthalene	0.0768	0.0038	"	0.100	ND	76.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0448		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0476		"	0.0400		119	50-150			
Surrogate: 4-Bromofluorobenzene	0.0447		"	0.0400		112	50-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BGK0460 - EPA 5030 Soil MS**

Matrix Spike Dup (BGK0460-MSD1)	Source: 2311233-01			Prepared: 11/13/23 Analyzed: 11/14/23						
Benzene	0.115	0.0020	mg/kg	0.100	ND	115	70-130	10.2	30	
Toluene	0.102	0.0050	"	0.100	ND	102	70-130	14.3	30	
Ethylbenzene	0.0873	0.0050	"	0.100	ND	87.3	70-130	4.89	30	
m,p-Xylene	0.171	0.010	"	0.200	ND	85.6	70-130	2.56	30	
o-Xylene	0.0855	0.0050	"	0.100	ND	85.5	70-130	1.91	30	
1,2,4-Trimethylbenzene	0.0711	0.0050	"	0.100	ND	71.1	70-130	0.421	30	
1,3,5-Trimethylbenzene	0.0727	0.0050	"	0.100	ND	72.7	70-130	1.25	30	
Naphthalene	0.0820	0.0038	"	0.100	ND	82.0	70-130	6.54	30	
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0468		"	0.0400		117	50-150			
Surrogate: 4-Bromofluorobenzene	0.0447		"	0.0400		112	50-150			

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

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

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

**Batch BGJ1210 - EPA 3550A**

**Blank (BGJ1210-BLK1)**

Prepared: 10/30/23 Analyzed: 11/01/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	8.16		"	12.5		65.3	30-150			

**LCS (BGJ1210-BS1)**

Prepared: 10/30/23 Analyzed: 11/01/23

C10-C28 (DRO)	381	50	mg/kg	500		76.1	70-130			
Surrogate: o-Terphenyl	9.50		"	12.5		76.0	30-150			

**Matrix Spike (BGJ1210-MS1)**

Source: 2310548-01

Prepared: 10/30/23 Analyzed: 11/01/23

C10-C28 (DRO)	386	50	mg/kg	500	17.2	73.8	70-130			
Surrogate: o-Terphenyl	8.25		"	12.5		66.0	30-150			

**Matrix Spike Dup (BGJ1210-MSD1)**

Source: 2310548-01

Prepared: 10/30/23 Analyzed: 11/01/23

C10-C28 (DRO)	377	50	mg/kg	500	17.2	71.9	70-130	2.55	20	
Surrogate: o-Terphenyl	7.38		"	12.5		59.0	30-150			

Summit Scientific

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGJ1164 - EPA 5030 Soil MS**

**Blank (BGJ1164-BLK1)**

Prepared & Analyzed: 10/30/23

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0298		"	0.0333		89.4	40-150			
Surrogate: Fluoranthene-d10	0.0310		"	0.0333		92.9	40-150			

**LCS (BGJ1164-BS1)**

Prepared & Analyzed: 10/30/23

Acenaphthene	0.0284	0.00500	mg/kg	0.0333		85.2	31-137			
Anthracene	0.0285	0.00500	"	0.0333		85.4	30-120			
Benzo (a) anthracene	0.0260	0.00500	"	0.0333		78.1	30-120			
Benzo (a) pyrene	0.0255	0.00500	"	0.0333		76.5	30-120			
Benzo (b) fluoranthene	0.0255	0.00500	"	0.0333		76.5	30-120			
Benzo (k) fluoranthene	0.0285	0.00500	"	0.0333		85.5	30-120			
Chrysene	0.0293	0.00500	"	0.0333		88.0	30-120			
Dibenz (a,h) anthracene	0.0219	0.00500	"	0.0333		65.7	30-120			
Fluoranthene	0.0278	0.00500	"	0.0333		83.5	30-120			
Fluorene	0.0285	0.00500	"	0.0333		85.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0303	0.00500	"	0.0333		91.0	30-120			
Pyrene	0.0305	0.00500	"	0.0333		91.5	35-142			
1-Methylnaphthalene	0.0260	0.00500	"	0.0333		77.9	35-142			
2-Methylnaphthalene	0.0307	0.00500	"	0.0333		92.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0274		"	0.0333		82.2	40-150			
Surrogate: Fluoranthene-d10	0.0285		"	0.0333		85.5	40-150			

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BGJ1164 - EPA 5030 Soil MS

##### Matrix Spike (BGJ1164-MS1)

Source: 2310548-01

Prepared & Analyzed: 10/30/23

Acenaphthene	0.0155	0.00500	mg/kg	0.0333	ND	46.5	31-137		
Anthracene	0.0159	0.00500	"	0.0333	ND	47.7	30-120		
Benzo (a) anthracene	0.0143	0.00500	"	0.0333	ND	43.0	30-120		
Benzo (a) pyrene	0.0149	0.00500	"	0.0333	ND	44.7	30-120		
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.3	30-120		
Benzo (k) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.4	30-120		
Chrysene	0.0156	0.00500	"	0.0333	ND	46.9	30-120		
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.6	30-120		
Fluoranthene	0.0158	0.00500	"	0.0333	ND	47.3	30-120		
Fluorene	0.0158	0.00500	"	0.0333	ND	47.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120		
Pyrene	0.0189	0.00500	"	0.0333	ND	56.7	35-142		
1-Methylnaphthalene	0.0152	0.00500	"	0.0333	ND	45.5	15-130		
2-Methylnaphthalene	0.0180	0.00500	"	0.0333	ND	53.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0139		"	0.0333		41.7	40-150		
Surrogate: Fluoranthene-d10	0.0167		"	0.0333		50.2	40-150		

##### Matrix Spike Dup (BGJ1164-MSD1)

Source: 2310548-01

Prepared & Analyzed: 10/30/23

Acenaphthene	0.0168	0.00500	mg/kg	0.0333	ND	50.4	31-137	7.96	30
Anthracene	0.0175	0.00500	"	0.0333	ND	52.6	30-120	9.83	30
Benzo (a) anthracene	0.0159	0.00500	"	0.0333	ND	47.7	30-120	10.6	30
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.5	30-120	10.2	30
Benzo (b) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.9	30-120	7.56	30
Benzo (k) fluoranthene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	9.38	30
Chrysene	0.0168	0.00500	"	0.0333	ND	50.5	30-120	7.54	30
Dibenz (a,h) anthracene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	1.81	30
Fluoranthene	0.0169	0.00500	"	0.0333	ND	50.8	30-120	7.25	30
Fluorene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	7.90	30
Indeno (1,2,3-cd) pyrene	0.0197	0.00500	"	0.0333	ND	59.1	30-120	11.5	30
Pyrene	0.0198	0.00500	"	0.0333	ND	59.5	35-142	4.77	30
1-Methylnaphthalene	0.0161	0.00500	"	0.0333	ND	48.2	15-130	5.69	50
2-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.2	15-130	13.3	50
Surrogate: 2-Methylnaphthalene-d10	0.0151		"	0.0333		45.3	40-150		
Surrogate: Fluoranthene-d10	0.0179		"	0.0333		53.6	40-150		

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BGK0375 - EPA 5030 Soil MS

##### Blank (BGK0375-BLK1)

Prepared: 11/10/23 Analyzed: 11/11/23

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0198		"	0.0333		59.3	40-150			
Surrogate: Fluoranthene-d10	0.0283		"	0.0333		84.8	40-150			

##### LCS (BGK0375-BS1)

Prepared: 11/10/23 Analyzed: 11/11/23

Acenaphthene	0.0261	0.00500	mg/kg	0.0333		78.2	31-137			
Anthracene	0.0274	0.00500	"	0.0333		82.2	30-120			
Benzo (a) anthracene	0.0251	0.00500	"	0.0333		75.3	30-120			
Benzo (a) pyrene	0.0229	0.00500	"	0.0333		68.7	30-120			
Benzo (b) fluoranthene	0.0274	0.00500	"	0.0333		82.2	30-120			
Benzo (k) fluoranthene	0.0294	0.00500	"	0.0333		88.1	30-120			
Chrysene	0.0278	0.00500	"	0.0333		83.3	30-120			
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333		51.0	30-120			
Fluoranthene	0.0283	0.00500	"	0.0333		84.9	30-120			
Fluorene	0.0255	0.00500	"	0.0333		76.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333		67.6	30-120			
Pyrene	0.0302	0.00500	"	0.0333		90.6	35-142			
1-Methylnaphthalene	0.0252	0.00500	"	0.0333		75.7	35-142			
2-Methylnaphthalene	0.0260	0.00500	"	0.0333		77.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0275		"	0.0333		82.5	40-150			
Surrogate: Fluoranthene-d10	0.0281		"	0.0333		84.4	40-150			

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

### PAH by EPA Method 8270D SIM - Quality Control

#### Summit Scientific

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

#### Batch BGK0375 - EPA 5030 Soil MS

##### Matrix Spike (BGK0375-MS1)

Source: 2311153-01

Prepared: 11/10/23 Analyzed: 11/11/23

Acenaphthene	0.0192	0.00500	mg/kg	0.0333	ND	57.6	31-137		
Anthracene	0.0134	0.00500	"	0.0333	ND	40.1	30-120		
Benzo (a) anthracene	0.0147	0.00500	"	0.0333	ND	44.2	30-120		
Benzo (a) pyrene	0.0152	0.00500	"	0.0333	ND	45.5	30-120		
Benzo (b) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.4	30-120		
Benzo (k) fluoranthene	0.0153	0.00500	"	0.0333	ND	45.9	30-120		
Chrysene	0.0145	0.00500	"	0.0333	ND	43.6	30-120		
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333	ND	40.8	30-120		
Fluoranthene	0.0134	0.00500	"	0.0333	ND	40.3	30-120		
Fluorene	0.0143	0.00500	"	0.0333	ND	43.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	41.9	30-120		
Pyrene	0.0140	0.00500	"	0.0333	ND	42.1	35-142		
1-Methylnaphthalene	0.0136	0.00500	"	0.0333	ND	40.7	15-130		
2-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND	43.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0140		"	0.0333		41.9	40-150		
Surrogate: Fluoranthene-d10	0.0137		"	0.0333		41.2	40-150		

##### Matrix Spike Dup (BGK0375-MSD1)

Source: 2311153-01

Prepared: 11/10/23 Analyzed: 11/11/23

Acenaphthene	0.0142	0.00500	mg/kg	0.0333	ND	42.7	31-137	29.7	30
Anthracene	0.0136	0.00500	"	0.0333	ND	40.8	30-120	1.84	30
Benzo (a) anthracene	0.0143	0.00500	"	0.0333	ND	42.9	30-120	2.94	30
Benzo (a) pyrene	0.0159	0.00500	"	0.0333	ND	47.8	30-120	4.89	30
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	19.5	30
Benzo (k) fluoranthene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	1.94	30
Chrysene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	7.33	30
Dibenz (a,h) anthracene	0.0138	0.00500	"	0.0333	ND	41.3	30-120	1.30	30
Fluoranthene	0.0143	0.00500	"	0.0333	ND	42.9	30-120	6.09	30
Fluorene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	3.47	30
Indeno (1,2,3-cd) pyrene	0.0138	0.00500	"	0.0333	ND	41.3	30-120	1.56	30
Pyrene	0.0153	0.00500	"	0.0333	ND	45.9	35-142	8.76	30
1-Methylnaphthalene	0.0136	0.00500	"	0.0333	ND	40.9	15-130	0.463	50
2-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.3	15-130	3.81	50
Surrogate: 2-Methylnaphthalene-d10	0.0153		"	0.0333		45.8	40-150		
Surrogate: Fluoranthene-d10	0.0137		"	0.0333		41.1	40-150		

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

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

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

**Batch BGK0120 - EPA 3050B**

**Blank (BGK0120-BLK1)**

Prepared: 11/03/23 Analyzed: 11/08/23

Boron ND 2.00 mg/L

**LCS (BGK0120-BS1)**

Prepared: 11/03/23 Analyzed: 11/08/23

Boron 4.38 2.00 mg/L 5.00 87.5 80-120

**Duplicate (BGK0120-DUP1)**

**Source: 2310526-12**

Prepared: 11/03/23 Analyzed: 11/08/23

Boron 0.194 2.00 mg/L 0.194 0.454 20

**Matrix Spike (BGK0120-MS1)**

**Source: 2310526-12**

Prepared: 11/03/23 Analyzed: 11/08/23

Boron 4.42 2.00 mg/L 5.00 0.194 84.5 75-125

**Matrix Spike Dup (BGK0120-MSD1)**

**Source: 2310526-12**

Prepared: 11/03/23 Analyzed: 11/08/23

Boron 4.42 2.00 mg/L 5.00 0.194 84.5 75-125 0.0373 25

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Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

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

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

**Batch BGK0144 - EPA 3050B**

**Blank (BGK0144-BLK1)**

Prepared: 11/05/23 Analyzed: 11/08/23

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

**LCS (BGK0144-BS1)**

Prepared: 11/05/23 Analyzed: 11/08/23

Arsenic	37.5	0.200	mg/kg wet	40.0	93.7	80-120
Barium	37.6	0.400	"	40.0	94.1	80-120
Cadmium	1.82	0.200	"	2.00	91.1	80-120
Copper	40.7	0.400	"	40.0	102	80-120
Lead	18.5	0.200	"	20.0	92.5	80-120
Nickel	40.2	0.400	"	40.0	100	80-120
Silver	1.86	0.0200	"	2.00	92.9	80-120
Zinc	39.6	0.400	"	40.0	99.0	80-120
Selenium	4.11	0.260	"	4.00	103	80-120

**Duplicate (BGK0144-DUP1)**

Source: 2310526-21

Prepared: 11/05/23 Analyzed: 11/08/23

Arsenic	1.05	0.200	mg/kg dry	1.01	4.57	20	
Barium	36.1	0.400	"	35.7	0.925	20	QR-04
Cadmium	0.103	0.200	"	0.111	8.28	20	QR-01
Copper	2.55	0.400	"	2.58	1.05	20	
Lead	6.75	0.200	"	6.76	0.0759	20	
Nickel	3.47	0.400	"	3.53	1.57	20	
Silver	0.0191	0.0200	"	0.0214	11.5	20	
Zinc	9.97	0.400	"	10.1	1.06	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

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

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

**Batch BGK0144 - EPA 3050B**

Matrix Spike (BGK0144-MS1)		Source: 2310526-21			Prepared: 11/05/23 Analyzed: 11/08/23					
Arsenic	18.2	0.200	mg/kg dry	46.6	1.01	37.0	75-125			QM-07
Barium	97.0	0.400	"	46.6	35.7	131	75-125			QM-07
Cadmium	2.15	0.200	"	2.33	0.111	87.6	75-125			
Copper	20.4	0.400	"	46.6	2.58	38.2	75-125			QM-07
Lead	26.6	0.200	"	23.3	6.76	85.0	75-125			
Nickel	20.8	0.400	"	46.6	3.53	37.1	75-125			QM-07
Silver	2.10	0.0200	"	2.33	0.0214	89.1	75-125			
Zinc	27.8	0.400	"	46.6	10.1	38.1	75-125			QM-07
Selenium	4.73	0.260	"	4.66	ND	101	75-125			

Matrix Spike Dup (BGK0144-MSD1)		Source: 2310526-21			Prepared: 11/05/23 Analyzed: 11/08/23					
Arsenic	18.7	0.200	mg/kg dry	46.6	1.01	38.0	75-125	2.73	25	QM-07
Barium	101	0.400	"	46.6	35.7	139	75-125	3.63	25	QM-07
Cadmium	2.23	0.200	"	2.33	0.111	90.7	75-125	3.30	25	
Copper	21.0	0.400	"	46.6	2.58	39.5	75-125	2.88	25	QM-07
Lead	27.5	0.200	"	23.3	6.76	89.1	75-125	3.47	25	
Nickel	21.2	0.400	"	46.6	3.53	38.0	75-125	1.82	25	QM-07
Silver	2.20	0.0200	"	2.33	0.0214	93.3	75-125	4.56	25	
Zinc	28.4	0.400	"	46.6	10.1	39.3	75-125	1.99	25	QM-07
Selenium	4.66	0.260	"	4.66	ND	100	75-125	1.42	25	

**Batch BGK1086 - EPA 3050B**

Blank (BGK1086-BLK1)		Prepared: 11/29/23 Analyzed: 11/30/23								
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

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

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

**Batch BGK1086 - EPA 3050B**

**LCS (BGK1086-BS1)**

Prepared: 11/29/23 Analyzed: 11/30/23

Arsenic	45.2	0.200	mg/kg wet	40.0		113	80-120			
Barium	44.2	0.400	"	40.0		111	80-120			
Cadmium	2.14	0.200	"	2.00		107	80-120			
Copper	46.1	0.400	"	40.0		115	80-120			
Lead	22.4	0.200	"	20.0		112	80-120			
Nickel	44.6	0.400	"	40.0		112	80-120			
Silver	2.14	0.0200	"	2.00		107	80-120			
Zinc	45.7	0.400	"	40.0		114	80-120			
Selenium	4.20	0.260	"	4.00		105	80-120			

**Duplicate (BGK1086-DUP1)**

Source: 2310548-01

Prepared: 11/29/23 Analyzed: 11/30/23

Arsenic	0.838	0.200	mg/kg dry		0.886			5.55	20	
Barium	72.8	0.400	"		87.6			18.4	20	
Cadmium	0.134	0.200	"		0.148			10.2	20	
Copper	2.14	0.400	"		2.16			0.990	20	
Lead	12.4	0.200	"		15.7			23.5	20	QR-04
Nickel	1.98	0.400	"		2.22			11.6	20	
Silver	0.0261	0.0200	"		0.0292			11.0	20	
Zinc	8.20	0.400	"		8.69			5.80	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BGK1086-MS1)**

Source: 2310548-01

Prepared: 11/29/23 Analyzed: 11/30/23

Arsenic	16.4	0.200	mg/kg dry	43.5	0.886	35.5	75-125			QM-05
Barium	124	0.400	"	43.5	87.6	82.5	75-125			
Cadmium	2.24	0.200	"	2.18	0.148	96.0	75-125			
Copper	17.9	0.400	"	43.5	2.16	36.3	75-125			QM-05
Lead	35.4	0.200	"	21.8	15.7	90.5	75-125			
Nickel	17.7	0.400	"	43.5	2.22	35.6	75-125			QM-05
Silver	2.09	0.0200	"	2.18	0.0292	94.9	75-125			
Zinc	25.0	0.400	"	43.5	8.69	37.5	75-125			QM-05
Selenium	3.74	0.260	"	4.35	ND	86.0	75-125			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

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

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

**Batch BGK1086 - EPA 3050B**

Matrix Spike Dup (BGK1086-MSD1)	Source: 2310548-01			Prepared: 11/29/23 Analyzed: 11/30/23						
Arsenic	16.4	0.200	mg/kg dry	43.5	0.886	35.6	75-125	0.252	25	QM-05
Barium	123	0.400	"	43.5	87.6	81.4	75-125	0.377	25	
Cadmium	2.29	0.200	"	2.18	0.148	98.6	75-125	2.50	25	
Copper	17.9	0.400	"	43.5	2.16	36.1	75-125	0.326	25	QM-05
Lead	34.9	0.200	"	21.8	15.7	88.5	75-125	1.24	25	
Nickel	17.5	0.400	"	43.5	2.22	35.1	75-125	1.44	25	QM-05
Silver	2.05	0.0200	"	2.18	0.0292	92.7	75-125	2.29	25	
Zinc	24.3	0.400	"	43.5	8.69	35.8	75-125	2.95	25	QM-05
Selenium	3.73	0.260	"	4.35	ND	85.7	75-125	0.373	25	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGJ1263 - 3060A Mod**

**Blank (BGJ1263-BLK1)**

Prepared: 10/31/23 Analyzed: 11/01/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BGJ1263-BS1)**

Prepared: 10/31/23 Analyzed: 11/01/23

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

**Duplicate (BGJ1263-DUP1)**

**Source: 2310374-05**

Prepared: 10/31/23 Analyzed: 11/01/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BGJ1263-MS1)**

**Source: 2310374-05**

Prepared: 10/31/23 Analyzed: 11/01/23

Chromium, Hexavalent 24.9 0.30 mg/kg dry 26.7 ND 93.4 75-125

**Matrix Spike Dup (BGJ1263-MSD1)**

**Source: 2310374-05**

Prepared: 10/31/23 Analyzed: 11/01/23

Chromium, Hexavalent 24.7 0.30 mg/kg dry 26.7 ND 92.6 75-125 0.860 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

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

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

**Batch BGK0091 - General Preparation**

**Blank (BGK0091-BLK1)**

Prepared: 11/02/23 Analyzed: 11/07/23

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

**LCS (BGK0091-BS1)**

Prepared: 11/02/23 Analyzed: 11/07/23

Calcium	5.95	0.0500	mg/L wet	5.00	119	70-130
Magnesium	5.41	0.0500	"	5.00	108	70-130
Sodium	5.53	0.0500	"	5.00	111	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Degenhart USX AE 63N62W	
PO Box 1289	Project Number: UWRWE-A3383-ABN CO23-273	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	01/03/24 11:34

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

Summit Scientific

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

Batch BGK0104 - General Preparation

Duplicate (BGK0104-DUP1)	Source: 2310552-01	Prepared & Analyzed: 11/03/23
% Solids	83.5	% 83.3 0.240 20

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W  
Project Number: UWRWE-A3383-ABN CO23-273  
Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

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

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

**Batch BGK0124 - General Preparation**

**Blank (BGK0124-BLK1)**

Prepared & Analyzed: 11/03/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGK0124-BS1)**

Prepared & Analyzed: 11/03/23

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

**Duplicate (BGK0124-DUP1)**

**Source: 2310554-01**

Prepared & Analyzed: 11/03/23

Specific Conductance (EC) 0.164 0.0100 mmhos/cm 0.164 0.00 20

Summit Scientific

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Fremont Environmental	Project: Noble - Degenhart USX AE 63N62W	
PO Box 1289	Project Number: UWRWE-A3383-ABN CO23-273	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	01/03/24 11:34

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

Summit Scientific

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

Batch BGK0125 - General Preparation

LCS (BGK0125-BS1)				Prepared & Analyzed: 11/03/23						
pH	9.03		pH Units	9.18		98.4	95-105			
Duplicate (BGK0125-DUP1)				Source: 2310554-01 Prepared & Analyzed: 11/03/23						
pH	8.41		pH Units	8.41				0.00	20	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart USX AE 63N62W

Project Number: UWRWE-A3383-ABN CO23-273

Project Manager: Paul Henchan

**Reported:**  
01/03/24 11:34

### 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.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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.
I-04	Sample was analyzed out of recommended holding time per clients request.
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

November 14, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

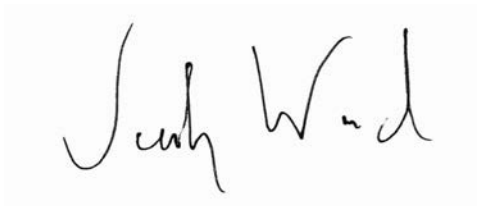
Wellington, CO 80549

RE: Noble - Degenhart Background

Work Order #2311083

Enclosed are the results of analyses for samples received by Summit Scientific on 11/02/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart Background

Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG-1 Surface	2311083-01	Soil	10/26/23 00:00	11/02/23 16:30
BKG-1 3FT	2311083-02	Soil	10/26/23 00:00	11/02/23 16:30
BKG-1 4FT	2311083-03	Soil	10/26/23 00:00	11/02/23 16:30
BKG-2 Surface	2311083-04	Soil	10/26/23 00:00	11/02/23 16:30
BKG-2 3FT	2311083-05	Soil	10/26/23 00:00	11/02/23 16:30
BKG-2 4FT	2311083-06	Soil	10/26/23 00:00	11/02/23 16:30
BKG-3 Surface	2311083-07	Soil	10/26/23 00:00	11/02/23 16:30
BKG-3 3FT	2311083-08	Soil	10/26/23 00:00	11/02/23 16:30
BKG-3 4FT	2311083-09	Soil	10/26/23 00:00	11/02/23 16:30
BKG-4 Surface	2311083-10	Soil	10/26/23 00:00	11/02/23 16:30
BKG-4 3FT	2311083-11	Soil	10/26/23 00:00	11/02/23 16:30
BKG-4 4FT	2311083-12	Soil	10/26/23 00:00	11/02/23 16:30
BKG-5 Surface	2311083-13	Soil	10/26/23 00:00	11/02/23 16:30
BKG-5 3FT	2311083-14	Soil	10/26/23 00:00	11/02/23 16:30
BKG-5 4FT	2311083-15	Soil	10/26/23 00:00	11/02/23 16:30

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2311083	

Client: Fremont Environmental, Inc.				Send Data To:				Send Invoice To:												
Address: 8305 6th St.				Project Manager: Henehan				Company: Chevron												
City/State/Zip: Wellington, CO, 80549				E-Mail: Fremont Distribution List				Project Name/Location:												
Phone: 603-477-6907				Project Name: Noble - Degenhart Background				AFE#:												
Sampler Name: Ethan Black				Project Number:				PO/Billing Codes: UWRWF-A3396-ABN												
				Contact: Mike Montoya																
		Preservative		Matrix		Analysis Requested				Special Instructions										
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBS	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	Metals (915-1)		
1	BKG-1 Surface	10/26/23		2			X			X						X		X		
2	BKG-1 3 Ft						X													
3	BKG-1 4 Ft																			
4	BKG-2 Surface																			
5	BKG-2 3 Ft																			
6	BKG-2 4 Ft																			
7	BKG-3 Surface			1																
8	BKG-3 3 Ft																			
9	BKG-3 4 Ft																			
10	BKG-4 Surface																			
11	BKG-4 3 Ft																			
12	BKG-4 4 Ft																			
13	BKG-5 Surface																			
14	BKG-5 3 Ft																			
15	BKG-5 4 Ft																			
Relinquished by: <i>Ethan Black</i>		Date/Time: 10/27/23		Received by: S2 - North Office		Date/Time: 10/27/23		TAT Business Days		Field DO		Notes:								
Relinquished by: S2		Date/Time: 10/27/23		Received by: <i>[Signature]</i>		Date/Time: 10/27/23		Same Day		Field EC										
								1 Day		Field ORP										
								2 Days		Field pH										
								3 Days		Field Temp.										
Relinquished by: <i>[Signature]</i>		Date/Time:		Received by:		Date/Time:		Standard		X Field Turb.										
Temperature Upon Receipt: 19.9				Corrected Temperature: 0				IR gun #:				HNO3 lot #:								

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2311083Client: Fremont/NobleClient Project ID: Degenhart BackgroundShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: \_\_\_\_\_

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

19.9

Thermometer #

1

	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
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"/>	
Additional Comments (if any): <u>sent bags</u>				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-1 Surface**  
**2311083-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.916</b>	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	<b>49.0</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.75</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.43</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.31</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>4.77</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>53.9</b>	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	<b>8.93</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>66.7</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-1 Surface**  
**2311083-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.22	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.8		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.880	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-1 3FT**  
**2311083-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.967</b>	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	<b>50.8</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.48</b>	0.400	"	"	"	"	"	"	
Lead	<b>3.43</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.47</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>5.15</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>39.3</b>	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	<b>6.33</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>1.83</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-1 3FT**  
**2311083-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0715	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.248	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-1 4FT**  
**2311083-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.839</b>	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	<b>48.6</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.43</b>	0.400	"	"	"	"	"	"	
Lead	<b>3.74</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.16</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>4.18</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>73.6</b>	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	<b>8.60</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>1.61</b>	0.0500	"	"	"	"	"	"	

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Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-1 4FT**  
**2311083-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0473	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.136	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-2 Surface**  
**2311083-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.62	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	66.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.53	0.400	"	"	"	"	"	"	
Lead	4.20	0.200	"	"	"	"	"	"	
Nickel	1.73	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.65	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	30.0	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	4.85	0.0500	"	"	"	"	"	"	
Sodium	1.18	0.0500	"	"	"	"	"	"	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-2 Surface**  
**2311083-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0527	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.120	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.62		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-2 3FT**  
**2311083-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.974</b>	0.200		mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	<b>35.4</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>1.21</b>	0.400		"	"	"	"	"	"	
Lead	<b>4.81</b>	0.200		"	"	"	"	"	"	
Nickel	<b>1.12</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>5.12</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>46.8</b>	0.0500		mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	<b>9.84</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>1.34</b>	0.0500		"	"	"	"	"	"	

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Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-2 3FT**  
**2311083-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0465	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.0		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.105	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.06		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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**Reported:**  
11/14/23 16:08

**BKG-2 4FT**  
**2311083-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.993</b>	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	<b>48.7</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.21</b>	0.400	"	"	"	"	"	"	
Lead	<b>4.32</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.44</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>4.85</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>54.9</b>	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	<b>9.40</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>3.74</b>	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-2 4FT**  
**2311083-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.123	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.428	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.24		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-3 Surface**  
**2311083-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.20	0.200		mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	52.3	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.28	0.400		"	"	"	"	"	"	
Lead	5.03	0.200		"	"	"	"	"	"	
Nickel	1.36	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	4.74	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	34.3	0.0500		mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	5.58	0.0500		"	"	"	"	"	"	
Sodium	19.5	0.0500		"	"	"	"	"	"	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-3 Surface**  
**2311083-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.814</b>	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>94.7</b>		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.348</b>	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.39</b>		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-3 3FT**  
**2311083-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.50	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	170	0.400	"	"	"	"	"	"	
Cadmium	0.217	0.200	"	"	"	"	"	"	
Copper	1.23	0.400	"	"	"	"	"	"	
Lead	4.21	0.200	"	"	"	"	"	"	
Nickel	2.02	0.400	"	"	"	"	"	"	
Silver	0.0257	0.0200	"	"	"	"	"	"	
Zinc	4.61	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	60.8	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	7.48	0.0500	"	"	"	"	"	"	
Sodium	1.52	0.0500	"	"	"	"	"	"	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-3 3FT**  
**2311083-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0489	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.161	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-3 4FT**  
**2311083-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.30	0.200		mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	70.1	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.79	0.400		"	"	"	"	"	"	
Lead	6.01	0.200		"	"	"	"	"	"	
Nickel	1.82	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	6.11	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	51.3	0.0500		mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	12.1	0.0500		"	"	"	"	"	"	
Sodium	13.5	0.0500		"	"	"	"	"	"	

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Project: Noble - Degenhart Background  
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Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-3 4FT**  
**2311083-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.440	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.524	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-4 Surface**  
**2311083-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>1.31</b>	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	<b>114</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.86</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.41</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.35</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>5.55</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>38.8</b>	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	<b>11.7</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>13.0</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-4 Surface**  
**2311083-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.470	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.394	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-4 3FT**  
**2311083-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.898</b>	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	<b>150</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.36</b>	0.400	"	"	"	"	"	"	
Lead	<b>4.94</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.75</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0276</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>5.53</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>62.4</b>	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	<b>5.63</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>5.48</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Degenhart Background  
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Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-4 3FT**  
**2311083-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.178	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.3		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.169	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-4 4FT**  
**2311083-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.690</b>	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	<b>29.1</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>0.816</b>	0.400	"	"	"	"	"	"	
Lead	<b>2.64</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.14</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>3.96</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>150</b>	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	<b>33.3</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>2.95</b>	0.0500	"	"	"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-4 4FT**  
**2311083-12 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0567	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.108	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.75		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-5 Surface**  
**2311083-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>1.02</b>	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	<b>36.8</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.33</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.14</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.31</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>4.67</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>36.2</b>	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	<b>6.78</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>12.2</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-5 Surface**  
**2311083-13 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.488</b>	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>94.9</b>		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.318</b>	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.15</b>		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-5 3FT**  
**2311083-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.13	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	62.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.98	0.400	"	"	"	"	"	"	
Lead	11.2	0.200	"	"	"	"	"	"	
Nickel	1.51	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.53	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	120	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	26.2	0.0500	"	"	"	"	"	"	
Sodium	43.6	0.0500	"	"	"	"	"	"	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-5 3FT**  
**2311083-14 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.940</b>	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>95.9</b>		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>1.51</b>	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.75</b>		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-5 4FT**  
**2311083-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0362	11/09/23	11/11/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.643</b>	0.200	mg/kg dry	1	BGK0419	11/11/23	11/13/23	EPA 6020B	
Barium	<b>25.2</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>0.775</b>	0.400	"	"	"	"	"	"	
Lead	<b>2.28</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.06</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>3.72</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0315	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>126</b>	0.0500	mg/L dry	1	BGK0368	11/09/23	11/11/23	EPA 6020B	
Magnesium	<b>23.3</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>2.14</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**BKG-5 4FT**  
**2311083-15 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0460	0.00100	units	1	BGK0498	11/14/23	11/14/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	BGK0324	11/08/23	11/09/23	Calculation	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.116	0.0100	mmhos/cm	1	BGK0378	11/10/23	11/10/23	EPA 120.1	

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

Date Sampled: **10/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BGK0379	11/10/23	11/10/23	EPA 9045D	

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Project: Noble - Degenhart Background

Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

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

**Summit Scientific**

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

**Batch BGK0362 - EPA 3050B**

**Blank (BGK0362-BLK1)**

Prepared: 11/09/23 Analyzed: 11/11/23

Boron ND 2.00 mg/L

**LCS (BGK0362-BS1)**

Prepared: 11/09/23 Analyzed: 11/11/23

Boron 4.85 2.00 mg/L 5.00 96.9 80-120

**Duplicate (BGK0362-DUP1)**

**Source: 2311080-01**

Prepared: 11/09/23 Analyzed: 11/11/23

Boron 0.222 2.00 mg/L 0.168 27.7 20 QR-01

**Matrix Spike (BGK0362-MS1)**

**Source: 2311080-01**

Prepared: 11/09/23 Analyzed: 11/11/23

Boron 4.63 2.00 mg/L 5.00 0.168 89.2 75-125

**Matrix Spike Dup (BGK0362-MSD1)**

**Source: 2311080-01**

Prepared: 11/09/23 Analyzed: 11/11/23

Boron 4.62 2.00 mg/L 5.00 0.168 89.1 75-125 0.0443 25

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

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

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

**Batch BGK0419 - EPA 3050B**

**Blank (BGK0419-BLK1)**

Prepared: 11/11/23 Analyzed: 11/13/23

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

**LCS (BGK0419-BS1)**

Prepared: 11/11/23 Analyzed: 11/13/23

Arsenic	41.0	0.200	mg/kg wet	40.0	103	80-120
Barium	36.2	0.400	"	40.0	90.4	80-120
Cadmium	1.83	0.200	"	2.00	91.6	80-120
Copper	43.8	0.400	"	40.0	109	80-120
Lead	17.7	0.200	"	20.0	88.5	80-120
Nickel	42.8	0.400	"	40.0	107	80-120
Silver	1.82	0.0200	"	2.00	91.0	80-120
Zinc	40.6	0.400	"	40.0	102	80-120
Selenium	4.09	0.260	"	4.00	102	80-120

**Duplicate (BGK0419-DUP1)**

Source: 2311080-01

Prepared: 11/11/23 Analyzed: 11/13/23

Arsenic	0.897	0.200	mg/kg dry	0.942	4.95	20
Barium	28.3	0.400	"	29.4	3.97	20
Cadmium	0.108	0.200	"	0.112	4.06	20
Copper	2.45	0.400	"	2.39	2.58	20
Lead	6.76	0.200	"	7.16	5.73	20
Nickel	2.80	0.400	"	2.80	0.0956	20
Silver	0.0134	0.0200	"	0.0152	12.5	20
Zinc	15.1	0.400	"	15.1	0.0295	20
Selenium	ND	0.260	"	ND		20

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

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

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

**Batch BGK0419 - EPA 3050B**

Matrix Spike (BGK0419-MS1)		Source: 2311080-01			Prepared: 11/11/23 Analyzed: 11/13/23					
Arsenic	13.1	0.200	mg/kg dry	44.7	0.942	27.3	75-125			QM-07
Barium	80.7	0.400	"	44.7	29.4	115	75-125			
Cadmium	2.13	0.200	"	2.23	0.112	90.5	75-125			
Copper	16.0	0.400	"	44.7	2.39	30.4	75-125			QM-07
Lead	25.2	0.200	"	22.3	7.16	80.8	75-125			
Nickel	15.8	0.400	"	44.7	2.80	29.2	75-125			QM-07
Silver	2.04	0.0200	"	2.23	0.0152	90.8	75-125			
Zinc	26.9	0.400	"	44.7	15.1	26.3	75-125			QM-07
Selenium	5.22	0.260	"	4.47	ND	117	75-125			

Matrix Spike Dup (BGK0419-MSD1)		Source: 2311080-01			Prepared: 11/11/23 Analyzed: 11/13/23					
Arsenic	13.1	0.200	mg/kg dry	44.7	0.942	27.3	75-125	0.245	25	QM-07
Barium	82.0	0.400	"	44.7	29.4	118	75-125	1.61	25	
Cadmium	2.17	0.200	"	2.23	0.112	92.2	75-125	1.74	25	
Copper	16.0	0.400	"	44.7	2.39	30.6	75-125	0.505	25	QM-07
Lead	25.9	0.200	"	22.3	7.16	83.9	75-125	2.70	25	
Nickel	16.0	0.400	"	44.7	2.80	29.5	75-125	0.789	25	QM-07
Silver	2.07	0.0200	"	2.23	0.0152	92.1	75-125	1.32	25	
Zinc	27.0	0.400	"	44.7	15.1	26.6	75-125	0.579	25	QM-07
Selenium	5.42	0.260	"	4.47	ND	121	75-125	3.72	25	

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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGK0315 - 3060A Mod**

**Blank (BGK0315-BLK1)**

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BGK0315-BS1)**

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent 26.6 0.30 mg/kg wet 25.0 107 80-120

**Duplicate (BGK0315-DUP1)**

**Source: 2310443-01**

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BGK0315-MS1)**

**Source: 2310443-01**

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent 32.0 0.30 mg/kg dry 30.5 ND 105 75-125

**Matrix Spike Dup (BGK0315-MSD1)**

**Source: 2310443-01**

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent 31.4 0.30 mg/kg dry 30.5 ND 103 75-125 2.12 20

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Fremont Environmental  
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Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

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

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

**Batch BGK0368 - General Preparation**

**Blank (BGK0368-BLK1)**

Prepared: 11/09/23 Analyzed: 11/11/23

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

**LCS (BGK0368-BS1)**

Prepared: 11/09/23 Analyzed: 11/11/23

Calcium	4.34	0.0500	mg/L wet	5.00	86.8	70-130
Magnesium	5.43	0.0500	"	5.00	109	70-130
Sodium	5.22	0.0500	"	5.00	104	70-130

Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart Background

Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

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

**Summit Scientific**

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

**Batch BGK0324 - General Preparation**

**Duplicate (BGK0324-DUP1)**

**Source: 2311077-01**

Prepared: 11/08/23 Analyzed: 11/09/23

% Solids	84.3	%	84.1	0.284	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart Background  
Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

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

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

**Batch BGK0378 - General Preparation**

**Blank (BGK0378-BLK1)**

Prepared & Analyzed: 11/10/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGK0378-BS1)**

Prepared & Analyzed: 11/10/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BGK0378-DUP1)**

**Source: 2311075-01**

Prepared & Analyzed: 11/10/23

Specific Conductance (EC) 0.571 0.0100 mmhos/cm 0.571 0.00 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart Background

Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

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

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

**Batch BGK0379 - General Preparation**

**LCS (BGK0379-BS1)**

Prepared & Analyzed: 11/10/23

pH	9.17	pH Units	9.18	99.9	95-105
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**Duplicate (BGK0379-DUP1)**

Source: 2311075-01

Prepared & Analyzed: 11/10/23

pH	8.93	pH Units	8.93	0.00	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Degenhart Background

Project Number: UWRWE-A3396-ABN  
Project Manager: Paul Henchan

**Reported:**  
11/14/23 16:08

### Notes and Definitions

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