

FREMONT ENVIRONMENTAL INC.

June 20, 2024

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

Subject: **Flowline Closure Data Submittal**
Lower Latham PC G 01-32D
API # 05-123-33909
SENE Sec. 2, T4N, R65W
Weld County, Colorado
Fremont Project No. C024-061
Remediation # 33461

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline closure activities for the Noble Energy Inc. (Noble) Lower Latham PC G 01-32D. Impacted soil was not encountered during abandonment activities. Details of the Lower Latham PC G 01-32D flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline 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:

- Flowline Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Report

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

Flowline Closure Checklist

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

<i>Additional Attachments:</i>		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
<i>Site Name & COGCC Facility Number:</i>		<i>Date:</i>						<i>Remediation Project #:</i>
<i>Associated Wells:</i>		<i>Age of Site:</i>						<i>Number of Photos Attached:</i>

Starting point: (GPS coordinates and descriptions)

End point: (GPS coordinates and descriptions)

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)

Flowlines

<i>Flowline type</i>							
<i>Depth</i>							
<i>Age</i>							
<i>Length</i>							
<i>Construction Material</i>							
<i>Were flowlines pulled?</i>							
<i>Visual Integrity of lines</i>							
<i>Visual impacts if trenched</i>							
<i>PID Readings if trenched</i>							
<i>Sample taken?</i>							
<i>Location/Sample ID#</i>							
<i>Photo Number(s)</i>							

Other observations regarding on location flowlines:

Summary

Was impacted soil identified?
 No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

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

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
LOWER LATHAM 01-32D, WELD COUNTY, COLORADO
REM # 33461

Sample ID	Sample Date	Depth	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude/Longitude			
FL01 3 Ft	3/19/2024	3	40.3432118	-104.6232928	-	0.0
08G, 22D, 32D FL02 3 Ft	3/19/2024	3	40.3436175	-104.6230274	1.10	0.0
08G, 22D, 32D FL03 3 Ft	3/19/2024	3	40.3438158	-104.6226954	0.90	0.0
08G, 22D, 32D FL04 3 Ft	3/19/2024	3	40.3439215	-104.6224246	1.00	0.0
08G, 22D, 32D FL05 3 Ft	3/19/2024	3	40.3441670	-104.6218304	0.80	0.0
02-01G Combi Trench 3FT	3/19/2024	3	40.3442117	-104.6213271	0.80	0.0
W FL Riser Combi Trench 3 Ft	3/18/2024	3	40.3441163	-104.6213293	0.70	0.0
BKG 1	3/19/2024	Multi	40.3431522	-104.62216	-	0.0
BKG 2	3/19/2024	Multi	40.344207	-104.623056	-	0.0
BKG 3	3/19/2024	Multi	40.344808	-104.622755	-	0.0
BKG 4	3/19/2024	Multi	40.344951	-104.621237	-	0.0
BKG 5	3/19/2024	Multi	40.343103	-104.621151	-	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

 = Source material characterization sample, excavated and transported off site for disposal.

 = Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
LOWER LATHAM 01-32D, WELD COUNTY, COLORADO
REM # 33461

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 (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	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	500**		
FL01 3FT	03/19/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
2-8G, 1-32D, 2-22D FL02 3FT	03/19/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
2-8G, 1-32D, 2-22D FL05 3FT	03/19/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
02-01G Combi Trench 3FT	03/19/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
W FL Riser Combi Trench 3FT	03/18/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
LOWER LATHAM 01-32D, WELD COUNTY, COLORADO
REM # 33461

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
FL01 3FT	03/19/2024	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
2-8G, 1-32D, 2-22D FL02 3FT	03/19/2024	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
2-8G, 1-32D, 2-22D FL05 3FT	03/19/2024	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
02-01G Combi Trench 3FT	03/19/2024	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
W FL Riser Combi Trench 3FT	03/18/2024	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

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. * Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
LOWER LATHAM 01-32D, WELD COUNTY, COLORADO
REM # 33461

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 3FT	03/19/2024	3	7.76	0.246	0.0177	<2.00
2-8G, 1-32D, 2-22D FL02 3FT	03/19/2024	3	7.83	1.88	1.63	<2.00
2-8G, 1-32D, 2-22D FL05 3FT	03/19/2024	3	8.07	1.05	1.12	<2.00
02-01G Combi Trench 3FT	03/19/2024	3	8.39	0.219	0.062	<2.00
W FL Riser Combi Trench 3FT	03/18/2024	3	8.31	0.225	0.112	<2.00
BKG 1 1FT	03/19/2024	1	8.63	0.415	0.146	<2.00
BKG 1 3FT	03/19/2024	3	8.39	0.458	0.212	<2.00
BKG 1 4FT	03/19/2024	4	8.99	0.286	0.244	<2.00
BKG 2 1FT	03/19/2024	1	8.13	0.318	0.322	<2.00
BKG 2 3FT	03/19/2024	3	7.71	0.628	0.452	<2.00
BKG 2 4FT	03/19/2024	4	7.99	0.753	0.538	<2.00
BKG 3 1FT	03/19/2024	1	8.31	0.412	1.42	<2.00
BKG 3 3FT	03/19/2024	3	7.91	1.29	1.43	<2.00
BKG 3 4FT	03/19/2024	4	8.13	0.76	1.11	<2.00
BKG 4 1FT	03/19/2024	1	8.59	0.813	1.88	<2.00
BKG 4 3FT	03/19/2024	3	8.34	1.04	2.37	<2.00
BKG 4 4FT	03/19/2024	4	8.44	0.97	2.11	<2.00
BKG 5 1FT	03/19/2024	1	7.91	1.21	1.31	<2.00
BKG 5 3FT	03/19/2024	3	8.05	1.6	2.19	<2.00
BKG 5 4FT	03/19/2024	4	8.26	1.33	2.56	<2.00
Maximum Root Background Concentration (0 - 3 ft)			8.63	NA	NA	<2.00
Average Root Background Concentration (0 - 3 ft)			8.197	NA	NA	<2.00
Maximum Background Concentration			8.99	NA	NA	<2.00
Average Background Concentration			8.252	NA	NA	<2.00

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

 = Source material characterization sample, excavated and transported off site for disposal.

 = Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
LOWER LATHAM 01-32D, WELD COUNTY, COLORADO
REM # 33461

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
FL01 3FT	03/19/2024	3	3.20	876	1.86	<0.30	10.1	8.06	4.94	<0.260	0.048	41.2
2-8G, 1-32D, 2-22D FLO2 3FT	03/19/2024	3	2.3	81.2	0.218	<0.30	3.48	8	4.04	<0.260	<0.0200	20.8
2-8G, 1-32D, 2-22D FLO5 3FT	03/19/2024	3	4.23	126	<0.200	<0.30	3.43	7.01	3.31	<0.260	0.0365	15.6
02-01G Combi Trench 3FT	03/19/2024	3	2.45	121	0.23	<0.30	3.66	7.84	4.29	<0.260	<0.0200	19.1
W FL Riser Combi Trench 3FT	03/18/2024	3	3.2	185	0.234	<0.30	7.92	7.38	6.42	<0.260	0.0281	28.9
BKG 1 1FT	03/19/2024	1	2.7	66	<0.200	<0.30	3.5	9.59	2.61	<0.260	0.0242	13.7
BKG 1 3FT	03/19/2024	3	2.69	71.3	0.224	<0.30	6.81	13.9	3.62	<0.260	0.0259	19.7
BKG 1 4FT	03/19/2024	4	3.58	81.6	<0.200	<0.30	4.83	10.6	3.11	<0.260	0.0288	16.7
BKG 2 1FT	03/19/2024	1	4.96	128	0.428	<0.30	6.18	11.8	5.85	<0.260	0.0386	25.1
BKG 2 3FT	03/19/2024	3	4.1	112	0.348	<0.30	5.88	11.3	5.7	<0.260	0.0355	25.8
BKG 2 4FT	03/19/2024	4	6.04	172	0.472	<0.30	8.74	15.8	8.25	<0.260	0.0486	38.8
BKG 3 1FT	03/19/2024	1	5.66	110	<0.200	<0.30	3.74	6.88	3.83	<0.260	0.0379	17
BKG 3 3FT	03/19/2024	3	4.61	107	<0.200	<0.30	3.65	6.55	3.57	<0.260	0.0324	15.8
BKG 3 4FT	03/19/2024	4	3.96	103	<0.200	<0.30	3.61	6.77	3.73	<0.260	0.0321	16.1
BKG 4 1FT	03/19/2024	1	3.92	57.4	<0.200	<0.30	0.57	4.77	1.01	<0.260	0.0285	5.45
BKG 4 3FT	03/19/2024	3	3.34	52.8	<0.200	<0.30	0.566	5.01	1.04	<0.260	0.0271	5.62
BKG 4 4FT	03/19/2024	4	4.08	62.1	<0.200	<0.30	0.58	5.18	1.05	<0.260	0.0299	5.27
BKG 5 1FT	03/19/2024	1	4.73	109	<0.200	<0.30	4.13	6.85	3.96	<0.260	0.0351	16.5
BKG 5 3FT	03/19/2024	3	3.65	67.9	<0.200	<0.30	1.17	5.07	1.55	<0.260	0.03	7.29
BKG 5 4FT	03/19/2024	4	4.08	57.4	<0.200	<0.30	0.695	4.99	1.14	<0.260	0.032	6.17
Maximum Root Zone Background Concentration (0 - 3 ft)			5.7	128	0.43	NA	NA	NA	NA	NA	NA	NA
125% Average Root Zone Background Concentration (0 - 3 ft)			5.0	110	0.38	NA	NA	NA	NA	NA	NA	NA
Maximum Background Concentration			6.04	172	0.47	NA	NA	NA	NA	NA	NA	NA
125% Average Background Concentration			5.30	113	0.46	NA	NA	NA	NA	NA	NA	NA

1. Bold values exceed the ECMC Table 915-1 limit(s)

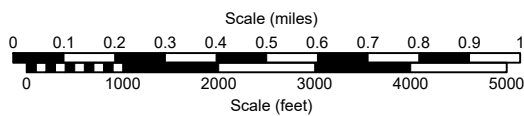
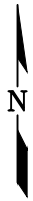
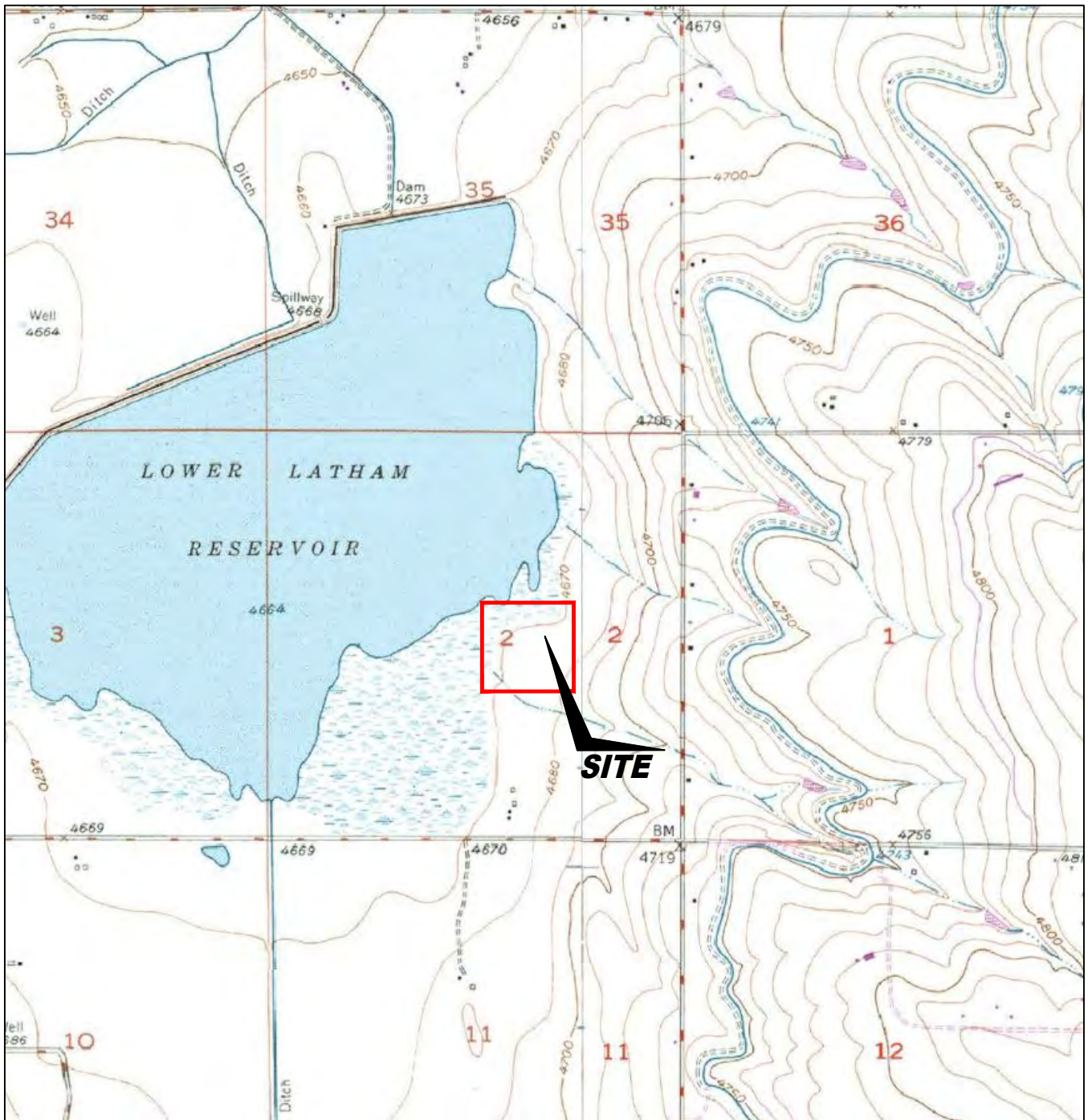
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

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USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
NOBLE ~ LOWER LATHAM RESERVOIR PC G 01-32D

SENE Sec. 2, T4N, R65W, 6th PM
 Weld County, Colorado
 40.343190°, -104.623060°

Project # C024-061	API # 05-123-33909	Facility #
Date 8/13/24	Remediation # 33461	Filename 24061T





LEGEND

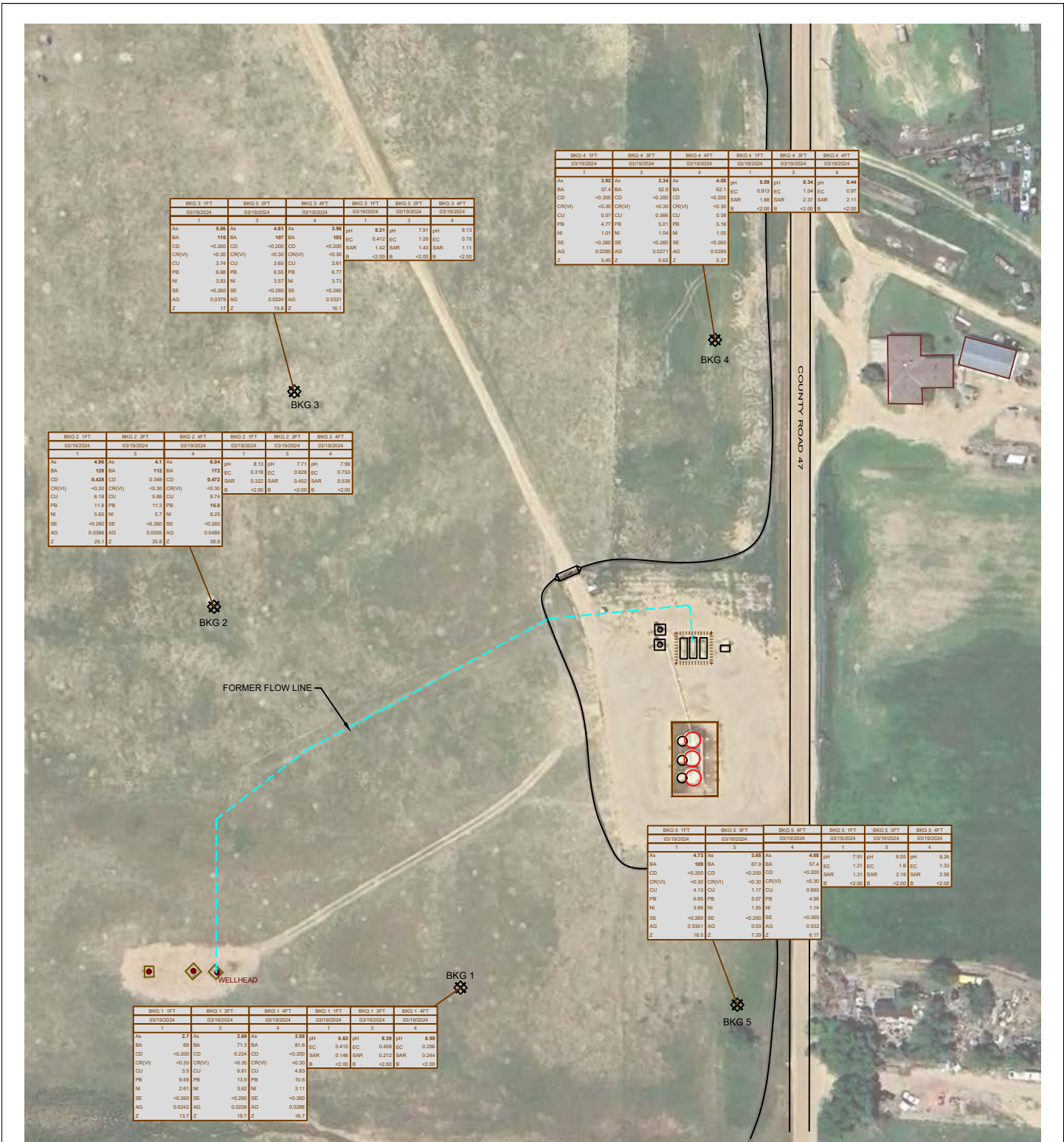
● WELL HEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	FORMER FLOW LINE
▲ PID READING LOCATION		BUILDING	FENCE LINE
			CONTAINMENT BERM
			CONTAINMENT WALL

**Figure 2
SITE MAP
NOBLE ~ LOWER LATHAM PC G 01-32D**

SENE Sec. 2, T4N, R65W, 6th PM
Weld County, Colorado
40.343190°, -104.623060°

Project No. C024-061	API # 05-123-33909	Facility #
Date 8/13/24	Remediation # 33461	Filename 24061Q





BKG 3 1FT		BKG 3 3FT		BKG 3 4FT		BKG 3 1FT		BKG 3 3FT		BKG 3 4FT	
03/19/2024		03/19/2024		03/19/2024		03/19/2024		03/19/2024		03/19/2024	
1	3	1	3	1	3	1	3	1	3	1	3
As	5.88	As	4.81	As	5.96	pH	8.31	pH	7.91	pH	8.13
BA	116	BA	107	BA	103	EC	0.412	EC	1.28	EC	0.76
CD	<-0.200	CD	<-0.200	CD	<-0.200	SAR	1.42	SAR	1.43	SAR	1.11
CR(V)	<-0.30	CR(V)	<-0.30	CR(V)	<-0.30	B	<-2.00	B	<-2.00	B	<-2.00
CU	3.74	CU	3.65	CU	3.81						
PB	6.88	PB	6.55	PB	6.77						
NI	3.83	NI	3.57	NI	3.73						
SE	<-0.260	SE	<-0.260	SE	<-0.260						
AG	0.0379	AG	0.0354	AG	0.0321						
Z	17	Z	15.3	Z	16.1						

BKG 4 1FT		BKG 4 3FT		BKG 4 4FT		BKG 4 1FT		BKG 4 3FT		BKG 4 4FT	
03/19/2024		03/19/2024		03/19/2024		03/19/2024		03/19/2024		03/19/2024	
1	3	1	3	1	3	1	3	1	3	1	3
As	3.52	As	3.34	As	4.03	pH	8.59	pH	8.34	pH	8.44
BA	57.4	BA	52.8	BA	621	EC	0.915	EC	1.04	EC	0.97
CD	<-0.200	CD	<-0.200	CD	<-0.200	SAR	1.88	SAR	2.37	SAR	2.11
CR(V)	<-0.30	CR(V)	<-0.30	CR(V)	<-0.30	B	<-2.00	B	<-2.00	B	<-2.00
CU	0.57	CU	0.569	CU	0.59						
PB	4.77	PB	5.01	PB	5.18						
NI	1.01	NI	1.04	NI	1.05						
SE	<-0.260	SE	<-0.260	SE	<-0.260						
AG	0.0386	AG	0.0271	AG	0.0309						
Z	5.43	Z	5.62	Z	5.27						

BKG 2 1FT		BKG 2 3FT		BKG 2 4FT		BKG 2 1FT		BKG 2 3FT		BKG 2 4FT	
03/19/2024		03/19/2024		03/19/2024		03/19/2024		03/19/2024		03/19/2024	
1	3	1	3	1	3	1	3	1	3	1	3
As	4.95	As	4.1	As	6.04	pH	8.13	pH	7.71	pH	7.99
BA	128	BA	112	BA	172	EC	0.318	EC	0.628	EC	0.753
CD	0.428	CD	0.348	CD	0.472	SAR	0.322	SAR	0.452	SAR	0.538
CR(V)	<-0.30	CR(V)	<-0.30	CR(V)	<-0.30	B	<-2.00	B	<-2.00	B	<-2.00
CU	6.16	CU	5.88	CU	8.74						
PB	11.8	PB	11.3	PB	15.8						
NI	5.85	NI	5.7	NI	8.25						
SE	<-0.260	SE	<-0.260	SE	<-0.260						
AG	0.0386	AG	0.0355	AG	0.0486						
Z	25.1	Z	20.8	Z	38.8						

BKG 5 1FT		BKG 5 3FT		BKG 5 4FT		BKG 5 1FT		BKG 5 3FT		BKG 5 4FT	
03/19/2024		03/19/2024		03/19/2024		03/19/2024		03/19/2024		03/19/2024	
1	3	1	3	1	3	1	3	1	3	1	3
As	4.73	As	3.65	As	4.98	pH	7.91	pH	8.05	pH	8.26
BA	199	BA	67.9	BA	57.6	EC	1.21	EC	1.6	EC	1.33
CD	<-0.200	CD	<-0.200	CD	<-0.200	SAR	1.31	SAR	2.19	SAR	2.66
CR(V)	<-0.30	CR(V)	<-0.30	CR(V)	<-0.30	B	<-2.00	B	<-2.00	B	<-2.00
CU	4.13	CU	1.17	CU	0.88						
PB	6.61	PB	5.97	PB	4.96						
NI	3.96	NI	1.55	NI	1.14						
SE	<-0.260	SE	<-0.260	SE	<-0.260						
AG	0.0361	AG	0.03	AG	0.032						
Z	14.3	Z	7.26	Z	6.17						

BKG 1 1FT		BKG 1 3FT		BKG 1 4FT		BKG 1 1FT		BKG 1 3FT		BKG 1 4FT	
03/19/2024		03/19/2024		03/19/2024		03/19/2024		03/19/2024		03/19/2024	
1	3	1	3	1	3	1	3	1	3	1	3
As	2.7	As	2.89	As	3.58	pH	8.83	pH	8.39	pH	8.99
BA	66	BA	71.9	BA	81.6	EC	0.416	EC	0.458	EC	0.289
CD	<-0.200	CD	0.234	CD	<-0.200	SAR	0.148	SAR	0.212	SAR	0.244
CR(V)	<-0.30	CR(V)	<-0.30	CR(V)	<-0.30	B	<-2.00	B	<-2.00	B	<-2.00
CU	3.5	CU	6.81	CU	4.83						
PB	9.59	PB	13.9	PB	10.6						
NI	2.61	NI	3.62	NI	3.11						
SE	<-0.260	SE	<-0.260	SE	<-0.260						
AG	0.0242	AG	0.0259	AG	0.0288						
Z	13.7	Z	19.7	Z	16.7						

LEGEND

- WELL HEAD LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- ▭ FORMER FACILITY
- ▭ BUILDING
- ▭ BUILDING
- ▭ FORMER FLOW LINE
- ▭ FENCE LINE
- ▭ CONTAINMENT BERM
- ▭ CONTAINMENT WALL
- ███ NOT ANALYZED

SAMPLE	SAMPLE ID	SAMPLE DATE	SAMPLE ID	SAMPLE DATE
As	<-0.01	ARSENIC (mg/kg)	As	<-0.01
BA	<-0.01	BARIUM (mg/kg)	BA	<-0.01
CD	<-0.01	CADMIUM (mg/kg)	CD	<-0.01
CR(V)	<-0.01	CHROMIUM (mg/kg)	CR(V)	<-0.01
CU	<-0.01	COPPER (mg/kg)	CU	<-0.01
PB	<-0.01	LEAD (mg/kg)	PB	<-0.01
NI	<-0.01	NICKEL (mg/kg)	NI	<-0.01
SE	<-0.1	SELENIUM (mg/kg)	SE	<-0.1
AG	<-0.01	SILVER (mg/kg)	AG	<-0.01
Z	<-0.01	ZINC (mg/kg)	Z	<-0.01

Figure 4
BACKGROUND SAMPLE SOIL CHEMISTRY MAP
NOBLE ~ LOWER LATHAM PC G 01-32D

SENE Sec. 2, T4N, R65W, 6th PM
 Weld County, Colorado
 40.343190°, -104.623060°

Project No. C024-061	API # 05-123-33909	Facility #
Date 8/13/24	Remediation # 33461	Filename 24061Q1



Photo Log



Description:

Lower Latham PC G01-32D - FL01 sample location with wellhead and FL riser in view, looking SW

Photo Log



Description:

Lower Latham PC G01-32D - FL02 sample location, in trench with Lower Latham 02-08G, and Lower Latham PC G02-22D flowlines, looking SW

Photo Log



Description:

Lower Latham PC G01-32D - FL03 sample location, in trench with Lower Latham 02-08G, and Lower Latham PC G02-22D flowlines, looking SW

Photo Log



Description:

Lower Latham PC G01-32D - FL04 sample location, in trench with Lower Latham 02-08G, and Lower Latham PC G02-22D flowlines, looking SW

Photo Log



Description:

Lower Latham PC G01-32D - FL05 sample location, in trench with Lower Latham 02-08G, and Lower Latham PC G02-22D flowlines, looking E

Photo Log



Description:

Lower Latham PC G01-32D - FL06 sample location, in trench with Lower Latham 02-08G, and Lower Latham PC G02-22D flowlines, looking S

Photo Log



Description:

Lower Latham PC G01-32D - FL06 sample location, in trench with Lower Latham 02-08G, and Lower Latham PC G02-22D flowlines

Photo Log



Description:

Lower Latham PC G01-32D - E and W FL riser excavations, looking E

Photo Log



Description:

Lower Latham PC G01-32D - flowline following removal, green FBE coating, good condition

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 22, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Lower Latham G01-32D

Work Order #2403333

Enclosed are the results of analyses for samples received by Summit Scientific on 03/21/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3FT	2403333-01	Soil	03/19/24 00:00	03/21/24 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	of
2403333		

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager: Henghan	Company: Chevron	
Address: 8305 6th St.	E-Mail: Chevron Dist. List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549	Fremont Dist. List: fremontenv.com	AFE#:	
Phone: 603-477-6907	Project Name: Noble - Lower Latham G01-32D	PO/Billing Codes: DWRWE - A2461 - ARN	
Sampler Name: Ethan Black	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron		Metals (Table 915-1)
1	FLO1 3PT	3/19/24		2			X			X			X	X	X	X		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <i>Ethan Black</i>	Date/Time: 3/21/24 500	Received by: S2 - North Office	Date/Time: 3/21/24 1500	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: S2	Date/Time: 3/21/24 1030	Received by: <i>[Signature]</i>	Date/Time: 3/21/24 1030	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 19.1	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2403333

Client: Franco Client Project ID: Node-Lower Latham G01-32D

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

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

Temp (°C) 19.1 Thermometer # 1

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

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

AS 3/21/24
Custodian Printed Name Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

FL01 3FT
2403333-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0938	03/25/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0365	91.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0935	03/25/24	03/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.57	44.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham G01-32D
Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

FL01 3FT
2403333-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0872	03/22/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0269	80.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0179	53.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0868	03/22/24	05/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 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 - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

FL01 3FT
2403333-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.20	0.200	mg/kg dry	1	BHC0861	03/22/24	04/20/24	EPA 6020B	
Barium	876	0.400	"	"	"	"	"	"	
Cadmium	1.86	0.200	"	"	"	"	"	"	
Copper	10.1	0.400	"	"	"	"	"	"	
Lead	8.06	0.200	"	"	"	"	"	"	
Nickel	4.94	0.400	"	"	"	"	"	"	
Silver	0.0480	0.0200	"	"	"	"	"	"	
Zinc	41.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.2	0.0500	mg/L dry	1	BHD0150	04/04/24	05/21/24	EPA 6020B	
Magnesium	6.57	0.0500	"	"	"	"	"	"	
Sodium	0.887	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0305	0.00100	units	1	BHE0676	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 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 - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:21

FL01 3FT
2403333-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.0	%	1	BHC0849	03/22/24	03/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.396	0.0100	mmhos/cm	1	BHD0152	04/04/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.03		pH Units	1	BHD0151	04/04/24	04/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham G01-32D
Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0938 - EPA 5030 Soil MS

Blank (BHC0938-BLK1)

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.7	50-150				
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150				
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	50-150				

LCS (BHC0938-BS1)

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	0.111	0.0020	mg/kg	0.100		111	70-130				
Toluene	0.105	0.0050	"	0.100		105	70-130				
Ethylbenzene	0.0914	0.0050	"	0.100		91.4	70-130				
m,p-Xylene	0.186	0.010	"	0.200		93.0	70-130				
o-Xylene	0.0898	0.0050	"	0.100		89.8	70-130				
1,2,4-Trimethylbenzene	0.0850	0.0050	"	0.100		85.0	70-130				
1,3,5-Trimethylbenzene	0.0865	0.0050	"	0.100		86.5	70-130				
Naphthalene	0.0765	0.0038	"	0.100		76.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0400		93.1	50-150				
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150				
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	50-150				

Matrix Spike (BHC0938-MS1)

Source: 2403327-01

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	0.0989	0.0020	mg/kg	0.100	ND	98.9	70-130				
Toluene	0.0947	0.0050	"	0.100	ND	94.7	70-130				
Ethylbenzene	0.0852	0.0050	"	0.100	ND	85.2	70-130				
m,p-Xylene	0.171	0.010	"	0.200	ND	85.6	70-130				
o-Xylene	0.0828	0.0050	"	0.100	ND	82.8	70-130				
1,2,4-Trimethylbenzene	0.0778	0.0050	"	0.100	ND	77.8	70-130				
1,3,5-Trimethylbenzene	0.0788	0.0050	"	0.100	ND	78.8	70-130				
Naphthalene	0.0630	0.0038	"	0.100	ND	63.0	70-130				QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0400		94.3	50-150				
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150				
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150				

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 - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:21

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

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

Batch BHC0938 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0938-MSD1)	Source: 2403327-01			Prepared: 03/25/24 Analyzed: 03/26/24						
Benzene	0.0991	0.0020	mg/kg	0.100	ND	99.1	70-130	0.182	30	
Toluene	0.0941	0.0050	"	0.100	ND	94.1	70-130	0.699	30	
Ethylbenzene	0.0853	0.0050	"	0.100	ND	85.3	70-130	0.0352	30	
m,p-Xylene	0.171	0.010	"	0.200	ND	85.3	70-130	0.386	30	
o-Xylene	0.0831	0.0050	"	0.100	ND	83.1	70-130	0.434	30	
1,2,4-Trimethylbenzene	0.0761	0.0050	"	0.100	ND	76.1	70-130	2.22	30	
1,3,5-Trimethylbenzene	0.0794	0.0050	"	0.100	ND	79.4	70-130	0.796	30	
Naphthalene	0.0606	0.0038	"	0.100	ND	60.6	70-130	3.88	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0369		"	0.0400		92.2	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0935 - EPA 3550A

Blank (BHC0935-BLK1)

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	6.15		"	12.5		49.2	30-150				

LCS (BHC0935-BS1)

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	484	50	mg/kg	500		96.9	70-130				
Surrogate: <i>o</i> -Terphenyl	5.21		"	12.5		41.7	30-150				

Matrix Spike (BHC0935-MS1)

Source: 2403327-01

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	387	50	mg/kg	500	22.7	72.9	70-130				
Surrogate: <i>o</i> -Terphenyl	4.16		"	12.5		33.3	30-150				

Matrix Spike Dup (BHC0935-MSD1)

Source: 2403327-01

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	397	50	mg/kg	500	22.7	74.8	70-130	2.45	20		
Surrogate: <i>o</i> -Terphenyl	4.20		"	12.5		33.6	30-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0872 - EPA 5030 Soil MS

Blank (BHC0872-BLK1)

Prepared & Analyzed: 03/22/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0381</i>		<i>"</i>	<i>0.0333</i>		<i>114</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0467</i>		<i>"</i>	<i>0.0333</i>		<i>140</i>	<i>40-150</i>			

LCS (BHC0872-BS1)

Prepared & Analyzed: 03/22/24

Acenaphthene	0.0252	0.00500	mg/kg	0.0333		75.7	31-137			
Anthracene	0.0321	0.00500	"	0.0333		96.4	30-120			
Benzo (a) anthracene	0.0207	0.00500	"	0.0333		62.2	30-120			
Benzo (a) pyrene	0.0271	0.00500	"	0.0333		81.2	30-120			
Benzo (b) fluoranthene	0.0209	0.00500	"	0.0333		62.7	30-120			
Benzo (k) fluoranthene	0.0284	0.00500	"	0.0333		85.3	30-120			
Chrysene	0.0290	0.00500	"	0.0333		86.9	30-120			
Dibenz (a,h) anthracene	0.0239	0.00500	"	0.0333		71.7	30-120			
Fluoranthene	0.0280	0.00500	"	0.0333		83.9	30-120			
Fluorene	0.0288	0.00500	"	0.0333		86.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0199	0.00500	"	0.0333		59.6	30-120			
Pyrene	0.0299	0.00500	"	0.0333		89.8	35-142			
1-Methylnaphthalene	0.0267	0.00500	"	0.0333		80.0	35-142			
2-Methylnaphthalene	0.0224	0.00500	"	0.0333		67.2	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0280</i>		<i>"</i>	<i>0.0333</i>		<i>84.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0293</i>		<i>"</i>	<i>0.0333</i>		<i>88.0</i>	<i>40-150</i>			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0872 - EPA 5030 Soil MS

Matrix Spike (BHC0872-MS1)	Source: 2403288-01			Prepared & Analyzed: 03/22/24							
Acenaphthene	0.0161	0.00500	mg/kg	0.0333	ND	48.2	31-137				
Anthracene	0.0187	0.00500	"	0.0333	ND	56.2	30-120				
Benzo (a) anthracene	0.0228	0.00500	"	0.0333	ND	68.4	30-120				
Benzo (a) pyrene	0.0178	0.00500	"	0.0333	ND	53.3	30-120				
Benzo (b) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.3	30-120				
Benzo (k) fluoranthene	0.0159	0.00500	"	0.0333	ND	47.8	30-120				
Chrysene	0.0177	0.00500	"	0.0333	ND	53.1	30-120				
Dibenz (a,h) anthracene	0.0195	0.00500	"	0.0333	ND	58.4	30-120				
Fluoranthene	0.0153	0.00500	"	0.0333	ND	45.9	30-120				
Fluorene	0.0192	0.00500	"	0.0333	ND	57.6	30-120				
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333	ND	55.4	30-120				
Pyrene	0.0164	0.00500	"	0.0333	ND	49.3	35-142				
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.8	15-130				
2-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.1	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0166</i>		<i>"</i>	<i>0.0333</i>		<i>49.9</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0141</i>		<i>"</i>	<i>0.0333</i>		<i>42.2</i>	<i>40-150</i>				

Matrix Spike Dup (BHC0872-MSD1)	Source: 2403288-01			Prepared & Analyzed: 03/22/24							
Acenaphthene	0.0151	0.00500	mg/kg	0.0333	ND	45.3	31-137	6.20	30		
Anthracene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	6.78	30		
Benzo (a) anthracene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	21.5	30		
Benzo (a) pyrene	0.0140	0.00500	"	0.0333	ND	42.0	30-120	23.6	30		
Benzo (b) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.1	30-120	16.0	30		
Benzo (k) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	18.8	30		
Chrysene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	1.60	30		
Dibenz (a,h) anthracene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	16.8	30		
Fluoranthene	0.0165	0.00500	"	0.0333	ND	49.4	30-120	7.44	30		
Fluorene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	3.02	30		
Indeno (1,2,3-cd) pyrene	0.0169	0.00500	"	0.0333	ND	50.8	30-120	8.59	30		
Pyrene	0.0182	0.00500	"	0.0333	ND	54.7	35-142	10.4	30		
1-Methylnaphthalene	0.0223	0.00500	"	0.0333	ND	66.9	15-130	35.4	50		
2-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.2	15-130	8.22	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0152</i>		<i>"</i>	<i>0.0333</i>		<i>45.7</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0153</i>		<i>"</i>	<i>0.0333</i>		<i>45.9</i>	<i>40-150</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:21

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

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

Batch BHC0868 - EPA 3050B

Blank (BHC0868-BLK1)

Prepared: 03/22/24 Analyzed: 05/13/24

Boron ND 2.00 mg/L

LCS (BHC0868-BS1)

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 5.19 2.00 mg/L 5.00 104 80-120

Duplicate (BHC0868-DUP1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 0.214 2.00 mg/L 0.294 31.9 20 QR-01

Matrix Spike (BHC0868-MS1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 5.59 2.00 mg/L 5.00 0.294 106 75-125

Matrix Spike Dup (BHC0868-MSD1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 5.80 2.00 mg/L 5.00 0.294 110 75-125 3.79 25

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Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0861 - EPA 3050B

Blank (BHC0861-BLK1)

Prepared: 03/22/24 Analyzed: 04/20/24

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

LCS (BHC0861-BS1)

Prepared: 03/22/24 Analyzed: 04/20/24

Arsenic	43.0	0.200	mg/kg wet	40.0	108	80-120
Barium	39.2	0.400	"	40.0	97.9	80-120
Cadmium	1.88	0.200	"	2.00	94.0	80-120
Copper	42.4	0.400	"	40.0	106	80-120
Lead	19.3	0.200	"	20.0	96.3	80-120
Nickel	40.7	0.400	"	40.0	102	80-120
Silver	1.92	0.0200	"	2.00	95.9	80-120
Zinc	41.9	0.400	"	40.0	105	80-120
Selenium	4.33	0.260	"	4.00	108	80-120

Duplicate (BHC0861-DUP1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 04/20/24

Arsenic	2.62	0.200	mg/kg dry	2.81	6.92	20	
Barium	135	0.400	"	183	30.4	20	QR-04
Cadmium	0.259	0.200	"	0.269	3.79	20	
Copper	4.28	0.400	"	4.77	10.7	20	
Lead	7.27	0.200	"	7.48	2.92	20	
Nickel	3.69	0.400	"	3.95	6.79	20	
Silver	0.0264	0.0200	"	0.0283	6.67	20	
Zinc	15.9	0.400	"	16.8	5.54	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0861 - EPA 3050B

Matrix Spike (BHC0861-MS1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 04/20/24

Arsenic	50.3	0.200	mg/kg dry	45.6	2.81	104	75-125			
Barium	198	0.400	"	45.6	183	32.6	75-125			QM-07
Cadmium	2.30	0.200	"	2.28	0.269	89.3	75-125			
Copper	35.8	0.400	"	45.6	4.77	68.2	75-125			QM-05
Lead	26.9	0.200	"	22.8	7.48	85.2	75-125			
Nickel	33.9	0.400	"	45.6	3.95	65.8	75-125			QM-05
Silver	2.10	0.0200	"	2.28	0.0283	90.7	75-125			
Zinc	45.8	0.400	"	45.6	16.8	63.6	75-125			QM-05
Selenium	4.16	0.260	"	4.56	ND	91.4	75-125			

Matrix Spike Dup (BHC0861-MSD1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 04/20/24

Arsenic	50.1	0.200	mg/kg dry	45.6	2.81	104	75-125	0.374	25	
Barium	199	0.400	"	45.6	183	35.9	75-125	0.746	25	QM-07
Cadmium	2.34	0.200	"	2.28	0.269	90.9	75-125	1.63	25	
Copper	35.3	0.400	"	45.6	4.77	66.9	75-125	1.61	25	QM-05
Lead	27.0	0.200	"	22.8	7.48	85.7	75-125	0.438	25	
Nickel	33.5	0.400	"	45.6	3.95	64.8	75-125	1.27	25	QM-05
Silver	2.11	0.0200	"	2.28	0.0283	91.4	75-125	0.758	25	
Zinc	44.8	0.400	"	45.6	16.8	61.4	75-125	2.19	25	QM-05
Selenium	4.24	0.260	"	4.56	ND	93.0	75-125	1.78	25	

Post Spike (BHC0861-PS1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 04/20/24

Arsenic	111		ug/l	100	6.16	105	75-125			
Barium	497		"	100	402	95.9	75-125			
Cadmium	4.98		"	5.00	0.591	87.7	75-125			
Copper	69.8		"	100	10.5	59.3	75-125			QM-01
Lead	59.1		"	50.0	16.4	85.4	75-125			
Nickel	65.7		"	100	8.67	57.0	75-125			QM-01
Silver	4.43		"	5.00	0.0620	87.4	75-125			
Zinc	94.9		"	100	36.9	58.0	75-125			QM-01
Selenium	9.60		"	10.0	0.323	92.8	75-125			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:21

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0853 - 3060A Mod

Blank (BHC0853-BLK1)

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0853-BS1)

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 24.6 0.30 mg/kg wet 25.0 98.2 80-120

Duplicate (BHC0853-DUP1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0853-MS1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 27.6 0.30 mg/kg dry 27.0 ND 102 75-125

Matrix Spike Dup (BHC0853-MSD1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 27.6 0.30 mg/kg dry 27.0 ND 102 75-125 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:21

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

Summit Scientific

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

Batch BHD0150 - General Preparation

Blank (BHD0150-BLK1)

Prepared: 04/04/24 Analyzed: 05/21/24

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

LCS (BHD0150-BS1)

Prepared: 04/04/24 Analyzed: 05/21/24

Calcium	5.67	0.0500	mg/L wet	5.00		113	70-130			
Magnesium	4.91	0.0500	"	5.00		98.3	70-130			
Sodium	4.82	0.0500	"	5.00		96.4	70-130			

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:21

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

Summit Scientific

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

Batch BHC0849 - General Preparation

Duplicate (BHC0849-DUP1)	Source: 2403322-01		Prepared: 03/22/24 Analyzed: 03/26/24	
% Solids	89.6	%	83.4	7.12 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:21

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

Summit Scientific

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

Batch BHD0152 - General Preparation

Blank (BHD0152-BLK1)

Prepared: 04/04/24 Analyzed: 04/08/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0152-BS1)

Prepared: 04/04/24 Analyzed: 04/08/24

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BHD0152-DUP1)

Source: 2403326-01

Prepared: 04/04/24 Analyzed: 04/08/24

Specific Conductance (EC) 0.353 0.0100 mmhos/cm 0.363 2.91 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:21

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

Summit Scientific

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

Batch BHD0151 - General Preparation

LCS (BHD0151-BS1)

Prepared: 04/04/24 Analyzed: 04/08/24

pH	9.08		pH Units	9.18		98.9	95-105			
----	------	--	----------	------	--	------	--------	--	--	--

Duplicate (BHD0151-DUP1)

Source: 2403326-01

Prepared: 04/04/24 Analyzed: 04/08/24

pH	8.50		pH Units	8.72		2.56	20			
----	------	--	----------	------	--	------	----	--	--	--

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham G01-32D

Project Number: UWRWE-A2461-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:21

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.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- 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

May 22, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Lower Latham Multi FL
Work Order #2403336

Enclosed are the results of analyses for samples received by Summit Scientific on 03/21/24 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 "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN

Project Manager: Paul Henchan

Reported:
05/22/24 10:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2-8G, 1-32D, 2-22D FL02 3FT	2403336-01	Soil	03/19/24 00:00	03/21/24 16:30
2-8G, 1-32D, 2-22D FL05 3FT	2403336-02	Soil	03/19/24 00:00	03/21/24 16:30
02-01G Combi Trench 3FT	2403336-03	Soil	03/19/24 00:00	03/21/24 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
2403336	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager: Henahan	Company: Chevron	
Address: 8305 6th St.	E-Mail: Chevron Dist. List, PDC Dist. List, Civitas Dist. List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549	Fremont Dist. List (@fremontenv.com): paulH, ethanB, nickL, mikeG, jeffG, christL, stanG, aaronO	AFE#:	
Phone: 603-477-6907	Project Name: Noble - Lower Latham Multi; FL	PO/Billing Codes: UWRWE - A2455-ABU	
Sampler Name: Ethan Black	Project Number:	Contact: Mike Montoya	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	TDS, Chloride, Sulfate	
1	7807 2-8G, 1-32D, 2-22D FLOS 3FT		3/19/24	2			X						X	X	X	X			
2	2-8G, 1-32D, 2-22D FLOS 3FT			2									X	X	X	X			
3	02-01G Combi Trench 3FT			2									X	X	X	X			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>Ethan Black</i>	Date/Time: 3/21/24 1500	Received by: S2 - North Office	Date/Time: 3/21/24 1500	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: S2	Date/Time: 3/21/24 1650	Received by: <i>[Signature]</i>	Date/Time: 3/21/24 1620	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: S2	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 19	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2403336

Client: Fremont Client Project ID: Noble-Lower Lathain Multi FL

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

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

Temp (°C) [19.1] Thermometer # [1]

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

AS
Custodian Printed Name

3/21/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL02 3FT
2403336-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHC0938	03/25/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0384	96.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0935	03/25/24	03/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	5.25	42.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL02 3FT
2403336-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0901	03/25/24	03/26/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0254	76.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0868	03/22/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 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 - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

**2-8G, 1-32D, 2-22D FL02 3FT
2403336-01 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.30	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	81.2	0.400	"	"	"	"	"	"	
Cadmium	0.218	0.200	"	"	"	"	"	"	
Copper	3.48	0.400	"	"	"	"	"	"	
Lead	8.00	0.200	"	"	"	"	"	"	
Nickel	4.04	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	20.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0854	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	132	0.0500	mg/L dry	1	BHD0150	04/04/24	05/21/24	EPA 6020B	
Magnesium	57.8	0.0500	"	"	"	"	"	"	
Sodium	89.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.63	0.00100	units	1	BHE0676	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

**2-8G, 1-32D, 2-22D FL02 3FT
 2403336-01 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.88	0.0100	mmhos/cm	1	BHD0152	04/04/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BHD0151	04/04/24	04/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL05 3FT
2403336-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0938	03/25/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0358	89.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0935	03/25/24	03/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.05	40.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

2-8G, 1-32D, 2-22D FL05 3FT
2403336-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0901	03/25/24	03/26/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0191	57.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0868	03/22/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 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 - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL05 3FT
2403336-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.23	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	126	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.43	0.400	"	"	"	"	"	"	
Lead	7.01	0.200	"	"	"	"	"	"	
Nickel	3.31	0.400	"	"	"	"	"	"	
Silver	0.0365	0.0200	"	"	"	"	"	"	
Zinc	15.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0854	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	89.3	0.0500	mg/L dry	1	BHD0150	04/04/24	05/21/24	EPA 6020B	
Magnesium	14.7	0.0500	"	"	"	"	"	"	
Sodium	43.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.12	0.00100	units	1	BHE0676	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

**2-8G, 1-32D, 2-22D FL05 3FT
 2403336-02 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.05	0.0100	mmhos/cm	1	BHD0152	04/04/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BHD0151	04/04/24	04/08/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

02-01G Combi Trench 3FT
2403336-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0938	03/25/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0375	93.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0935	03/25/24	03/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	4.86	38.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

02-01G Combi Trench 3FT
2403336-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0901	03/25/24	03/26/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0220	65.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	57.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0868	03/22/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

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

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

**02-01G Combi Trench 3FT
2403336-03 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.45	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	121	0.400	"	"	"	"	"	"	
Cadmium	0.230	0.200	"	"	"	"	"	"	
Copper	3.66	0.400	"	"	"	"	"	"	
Lead	7.84	0.200	"	"	"	"	"	"	
Nickel	4.29	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	19.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0854	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	98.2	0.0500	mg/L dry	1	BHD0150	04/04/24	05/21/24	EPA 6020B	
Magnesium	15.8	0.0500	"	"	"	"	"	"	
Sodium	2.51	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0620	0.00100	units	1	BHE0676	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

02-01G Combi Trench 3FT
2403336-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.219	0.0100	mmhos/cm	1	BHD0152	04/04/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHD0151	04/04/24	04/08/24	EPA 9045D	

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Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0938 - EPA 5030 Soil MS

Blank (BHC0938-BLK1)

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.7	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	50-150			

LCS (BHC0938-BS1)

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	0.111	0.0020	mg/kg	0.100		111	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.0914	0.0050	"	0.100		91.4	70-130			
m,p-Xylene	0.186	0.010	"	0.200		93.0	70-130			
o-Xylene	0.0898	0.0050	"	0.100		89.8	70-130			
1,2,4-Trimethylbenzene	0.0850	0.0050	"	0.100		85.0	70-130			
1,3,5-Trimethylbenzene	0.0865	0.0050	"	0.100		86.5	70-130			
Naphthalene	0.0765	0.0038	"	0.100		76.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0400		93.1	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	50-150			

Matrix Spike (BHC0938-MS1)

Source: 2403327-01

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	0.0989	0.0020	mg/kg	0.100	ND	98.9	70-130			
Toluene	0.0947	0.0050	"	0.100	ND	94.7	70-130			
Ethylbenzene	0.0852	0.0050	"	0.100	ND	85.2	70-130			
m,p-Xylene	0.171	0.010	"	0.200	ND	85.6	70-130			
o-Xylene	0.0828	0.0050	"	0.100	ND	82.8	70-130			
1,2,4-Trimethylbenzene	0.0778	0.0050	"	0.100	ND	77.8	70-130			
1,3,5-Trimethylbenzene	0.0788	0.0050	"	0.100	ND	78.8	70-130			
Naphthalene	0.0630	0.0038	"	0.100	ND	63.0	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0400		94.3	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

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Project: Noble - Lower Latham Multi FL
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

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

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

Batch BHC0938 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0938-MSD1)	Source: 2403327-01			Prepared: 03/25/24 Analyzed: 03/26/24						
Benzene	0.0991	0.0020	mg/kg	0.100	ND	99.1	70-130	0.182	30	
Toluene	0.0941	0.0050	"	0.100	ND	94.1	70-130	0.699	30	
Ethylbenzene	0.0853	0.0050	"	0.100	ND	85.3	70-130	0.0352	30	
m,p-Xylene	0.171	0.010	"	0.200	ND	85.3	70-130	0.386	30	
o-Xylene	0.0831	0.0050	"	0.100	ND	83.1	70-130	0.434	30	
1,2,4-Trimethylbenzene	0.0761	0.0050	"	0.100	ND	76.1	70-130	2.22	30	
1,3,5-Trimethylbenzene	0.0794	0.0050	"	0.100	ND	79.4	70-130	0.796	30	
Naphthalene	0.0606	0.0038	"	0.100	ND	60.6	70-130	3.88	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0369		"	0.0400		92.2	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

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Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0935 - EPA 3550A

Blank (BHC0935-BLK1)

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	6.15		"	12.5		49.2		30-150			

LCS (BHC0935-BS1)

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	484	50	mg/kg	500		96.9		70-130			
Surrogate: <i>o</i> -Terphenyl	5.21		"	12.5		41.7		30-150			

Matrix Spike (BHC0935-MS1)

Source: 2403327-01

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	387	50	mg/kg	500	22.7	72.9		70-130			
Surrogate: <i>o</i> -Terphenyl	4.16		"	12.5		33.3		30-150			

Matrix Spike Dup (BHC0935-MSD1)

Source: 2403327-01

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	397	50	mg/kg	500	22.7	74.8		70-130	2.45	20	
Surrogate: <i>o</i> -Terphenyl	4.20		"	12.5		33.6		30-150			

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Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0901 - EPA 5030 Soil MS

Blank (BHC0901-BLK1)

Prepared & Analyzed: 03/25/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0424</i>		<i>"</i>	<i>0.0333</i>		<i>127</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0304</i>		<i>"</i>	<i>0.0333</i>		<i>91.3</i>		<i>40-150</i>		

LCS (BHC0901-BS1)

Prepared & Analyzed: 03/25/24

Acenaphthene	0.0267	0.00500	mg/kg	0.0333		80.2		31-137		
Anthracene	0.0212	0.00500	"	0.0333		63.6		30-120		
Benzo (a) anthracene	0.0161	0.00500	"	0.0333		48.4		30-120		
Benzo (a) pyrene	0.0187	0.00500	"	0.0333		56.0		30-120		
Benzo (b) fluoranthene	0.0233	0.00500	"	0.0333		70.0		30-120		
Benzo (k) fluoranthene	0.0280	0.00500	"	0.0333		84.0		30-120		
Chrysene	0.0237	0.00500	"	0.0333		71.2		30-120		
Dibenz (a,h) anthracene	0.0282	0.00500	"	0.0333		84.5		30-120		
Fluoranthene	0.0271	0.00500	"	0.0333		81.4		30-120		
Fluorene	0.0279	0.00500	"	0.0333		83.7		30-120		
Indeno (1,2,3-cd) pyrene	0.0212	0.00500	"	0.0333		63.7		30-120		
Pyrene	0.0281	0.00500	"	0.0333		84.4		35-142		
1-Methylnaphthalene	0.0140	0.00500	"	0.0333		42.0		35-142		
2-Methylnaphthalene	0.0180	0.00500	"	0.0333		53.9		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0279</i>		<i>"</i>	<i>0.0333</i>		<i>83.6</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0278</i>		<i>"</i>	<i>0.0333</i>		<i>83.3</i>		<i>40-150</i>		

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Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0901 - EPA 5030 Soil MS

Matrix Spike (BHC0901-MS1)	Source: 2403322-01			Prepared: 03/25/24 Analyzed: 03/26/24						
Acenaphthene	0.0259	0.00500	mg/kg	0.0333	ND	77.8	31-137			
Anthracene	0.0257	0.00500	"	0.0333	ND	77.2	30-120			
Benzo (a) anthracene	0.0275	0.00500	"	0.0333	ND	82.4	30-120			
Benzo (a) pyrene	0.0280	0.00500	"	0.0333	ND	83.9	30-120			
Benzo (b) fluoranthene	0.0273	0.00500	"	0.0333	ND	82.0	30-120			
Benzo (k) fluoranthene	0.0256	0.00500	"	0.0333	ND	76.9	30-120			
Chrysene	0.0252	0.00500	"	0.0333	ND	75.6	30-120			
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333	ND	66.1	30-120			
Fluoranthene	0.0259	0.00500	"	0.0333	ND	77.6	30-120			
Fluorene	0.0262	0.00500	"	0.0333	ND	78.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0214	0.00500	"	0.0333	ND	64.2	30-120			
Pyrene	0.0273	0.00500	"	0.0333	ND	82.0	35-142			
1-Methylnaphthalene	0.0399	0.00500	"	0.0333	ND	120	15-130			
2-Methylnaphthalene	0.0346	0.00500	"	0.0333	ND	104	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0430</i>		<i>"</i>	<i>0.0333</i>		<i>129</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0265</i>		<i>"</i>	<i>0.0333</i>		<i>79.6</i>	<i>40-150</i>			

Matrix Spike Dup (BHC0901-MSD1)	Source: 2403322-01			Prepared: 03/25/24 Analyzed: 03/26/24						
Acenaphthene	0.0246	0.00500	mg/kg	0.0333	ND	73.7	31-137	5.35	30	
Anthracene	0.0234	0.00500	"	0.0333	ND	70.1	30-120	9.60	30	
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	ND	75.5	30-120	8.70	30	
Benzo (a) pyrene	0.0261	0.00500	"	0.0333	ND	78.3	30-120	6.87	30	
Benzo (b) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.7	30-120	10.7	30	
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	12.2	30	
Chrysene	0.0229	0.00500	"	0.0333	ND	68.6	30-120	9.75	30	
Dibenz (a,h) anthracene	0.0206	0.00500	"	0.0333	ND	61.9	30-120	6.54	30	
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.6	30-120	12.2	30	
Fluorene	0.0244	0.00500	"	0.0333	ND	73.3	30-120	7.21	30	
Indeno (1,2,3-cd) pyrene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	5.83	30	
Pyrene	0.0248	0.00500	"	0.0333	ND	74.5	35-142	9.60	30	
1-Methylnaphthalene	0.0412	0.00500	"	0.0333	ND	124	15-130	3.22	50	
2-Methylnaphthalene	0.0429	0.00500	"	0.0333	ND	129	15-130	21.4	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0374</i>		<i>"</i>	<i>0.0333</i>		<i>112</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0234</i>		<i>"</i>	<i>0.0333</i>		<i>70.3</i>	<i>40-150</i>			

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

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

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

Batch BHC0868 - EPA 3050B

Blank (BHC0868-BLK1)

Prepared: 03/22/24 Analyzed: 05/13/24

Boron ND 2.00 mg/L

LCS (BHC0868-BS1)

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 5.19 2.00 mg/L 5.00 104 80-120

Duplicate (BHC0868-DUP1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 0.214 2.00 mg/L 0.294 31.9 20 QR-01

Matrix Spike (BHC0868-MS1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 5.59 2.00 mg/L 5.00 0.294 106 75-125

Matrix Spike Dup (BHC0868-MSD1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 5.80 2.00 mg/L 5.00 0.294 110 75-125 3.79 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0862 - EPA 3050B

Blank (BHC0862-BLK1)

Prepared: 03/22/24 Analyzed: 04/04/24

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

LCS (BHC0862-BS1)

Prepared: 03/22/24 Analyzed: 04/04/24

Arsenic	37.8	0.200	mg/kg wet	40.0	94.5	80-120
Barium	38.6	0.400	"	40.0	96.4	80-120
Cadmium	1.96	0.200	"	2.00	98.0	80-120
Copper	41.9	0.400	"	40.0	105	80-120
Lead	19.3	0.200	"	20.0	96.6	80-120
Nickel	41.4	0.400	"	40.0	104	80-120
Silver	1.95	0.0200	"	2.00	97.5	80-120
Zinc	41.6	0.400	"	40.0	104	80-120
Selenium	3.81	0.260	"	4.00	95.3	80-120

Duplicate (BHC0862-DUP1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 04/04/24

Arsenic	3.59	0.200	mg/kg dry	2.70	28.3	20	QR-04
Barium	71.7	0.400	"	66.0	8.36	20	
Cadmium	0.140	0.200	"	0.131	6.70	20	
Copper	3.87	0.400	"	3.50	9.97	20	
Lead	12.4	0.200	"	9.59	25.6	20	QR-04
Nickel	3.21	0.400	"	2.61	20.7	20	QR-01
Silver	0.0358	0.0200	"	0.0242	38.8	20	QR-01
Zinc	15.6	0.400	"	13.7	13.1	20	
Selenium	0.183	0.260	"	ND	200	20	QR-01

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 - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0862 - EPA 3050B

Matrix Spike (BHC0862-MS1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 04/04/24

Arsenic	42.8	0.200	mg/kg dry	43.2	2.70	92.9	75-125				
Barium	103	0.400	"	43.2	66.0	85.5	75-125				
Cadmium	2.30	0.200	"	2.16	0.131	100	75-125				
Copper	35.5	0.400	"	43.2	3.50	74.1	75-125				QM-05
Lead	36.1	0.200	"	21.6	9.59	123	75-125				
Nickel	34.4	0.400	"	43.2	2.61	73.8	75-125				QM-05
Silver	2.14	0.0200	"	2.16	0.0242	97.9	75-125				
Zinc	47.0	0.400	"	43.2	13.7	77.2	75-125				
Selenium	3.64	0.260	"	4.32	ND	84.2	75-125				

Matrix Spike Dup (BHC0862-MSD1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 04/04/24

Arsenic	43.4	0.200	mg/kg dry	43.2	2.70	94.3	75-125	1.42	25		
Barium	102	0.400	"	43.2	66.0	83.1	75-125	0.996	25		
Cadmium	2.27	0.200	"	2.16	0.131	99.1	75-125	1.12	25		
Copper	35.1	0.400	"	43.2	3.50	73.2	75-125	1.12	25		QM-05
Lead	36.0	0.200	"	21.6	9.59	122	75-125	0.308	25		
Nickel	34.0	0.400	"	43.2	2.61	72.8	75-125	1.24	25		QM-05
Silver	2.12	0.0200	"	2.16	0.0242	97.1	75-125	0.750	25		
Zinc	46.2	0.400	"	43.2	13.7	75.2	75-125	1.79	25		
Selenium	3.62	0.260	"	4.32	ND	83.9	75-125	0.428	25		

Post Spike (BHC0862-PS1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 04/04/24

Arsenic	105		ug/l	100	6.26	99.2	75-125				
Barium	254		"	100	153	101	75-125				
Cadmium	5.35		"	5.00	0.303	101	75-125				
Copper	82.2		"	100	8.12	74.1	75-125				QM-01
Lead	72.0		"	50.0	22.2	99.6	75-125				
Nickel	80.0		"	100	6.05	73.9	75-125				QM-01
Silver	5.11		"	5.00	0.0560	101	75-125				
Zinc	106		"	100	31.8	74.0	75-125				QM-01
Selenium	9.17		"	10.0	0.260	89.1	75-125				

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 - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0854 - 3060A Mod

Blank (BHC0854-BLK1)

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0854-BS1)

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 24.6 0.30 mg/kg wet 25.0 98.2 80-120

Duplicate (BHC0854-DUP1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0854-MS1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 28.8 0.30 mg/kg dry 28.5 ND 101 75-125

Matrix Spike Dup (BHC0854-MSD1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 28.8 0.30 mg/kg dry 28.5 ND 101 75-125 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

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

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

Batch BHD0150 - General Preparation

Blank (BHD0150-BLK1)

Prepared: 04/04/24 Analyzed: 05/21/24

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

LCS (BHD0150-BS1)

Prepared: 04/04/24 Analyzed: 05/21/24

Calcium	5.67	0.0500	mg/L wet	5.00		113	70-130			
Magnesium	4.91	0.0500	"	5.00		98.3	70-130			
Sodium	4.82	0.0500	"	5.00		96.4	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

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

Summit Scientific

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

Batch BHC0850 - General Preparation

Duplicate (BHC0850-DUP1)		Source: 2403331-01		Prepared: 03/22/24 Analyzed: 03/28/24	
% Solids	91.7	%		92.7	1.06 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

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

Summit Scientific

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

Batch BHD0152 - General Preparation

Blank (BHD0152-BLK1)

Prepared: 04/04/24 Analyzed: 04/08/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0152-BS1)

Prepared: 04/04/24 Analyzed: 04/08/24

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BHD0152-DUP1)

Source: 2403326-01

Prepared: 04/04/24 Analyzed: 04/08/24

Specific Conductance (EC) 0.353 0.0100 mmhos/cm 0.363 2.91 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/22/24 10:30

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

Summit Scientific

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

Batch BHD0151 - General Preparation

LCS (BHD0151-BS1)

Prepared: 04/04/24 Analyzed: 04/08/24

pH	9.08	pH Units	9.18	98.9	95-105
----	------	----------	------	------	--------

Duplicate (BHD0151-DUP1)

Source: 2403326-01

Prepared: 04/04/24 Analyzed: 04/08/24

pH	8.50	pH Units	8.72	2.56	20
----	------	----------	------	------	----

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

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.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- 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

May 29, 2024


Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Lower Latham Reservoir PG C Tank

Work Order #2403269

Enclosed are the results of analyses for samples received by Summit Scientific on 03/18/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W FL Riser Combi Trench 3FT	2403269-01	Soil	03/18/24 00:00	03/18/24 16:30
E FL Riser Combi Trench 3FT	2403269-02	Soil	03/18/24 00:00	03/18/24 16:30
East DL 3FT	2403269-03	Soil	03/18/24 00:00	03/18/24 16:30
Mid DL 3FT	2403269-04	Soil	03/18/24 00:00	03/18/24 16:30
West DL 3FT	2403269-05	Soil	03/18/24 00:00	03/18/24 16:30
S Ast 1FT	2403269-06	Soil	03/18/24 00:00	03/18/24 16:30
Mid Ast 1FT	2403269-07	Soil	03/18/24 00:00	03/18/24 16:30
N Ast 1FT	2403269-08	Soil	03/18/24 00:00	03/18/24 16:30
N Wall 3FT	2403269-09	Soil	03/18/24 00:00	03/18/24 16:30
NE Wall 3FT	2403269-10	Soil	03/18/24 00:00	03/18/24 16:30
NW Wall 3FT	2403269-11	Soil	03/18/24 00:00	03/18/24 16:30
Floor 4FT	2403269-12	Soil	03/18/24 00:00	03/18/24 16:30
Mid W Wall 3FT	2403269-13	Soil	03/18/24 00:00	03/18/24 16:30
Mid E Wall 3FT	2403269-14	Soil	03/18/24 00:00	03/18/24 16:30
Mid Floor 4FT	2403269-15	Soil	03/18/24 00:00	03/18/24 16:30
S Wall 3FT	2403269-16	Soil	03/18/24 00:00	03/18/24 16:30
SE Wall 3FT	2403269-17	Soil	03/18/24 00:00	03/18/24 16:30
SW Wall 3FT	2403269-18	Soil	03/18/24 00:00	03/18/24 16:30
S Floor 4FT	2403269-19	Soil	03/18/24 00:00	03/18/24 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 2
2403269.1	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: Chevron	
Address: 8305 6th St.	E-Mail: <small>Chevron Dist. List, CG Dist. List, Dunes Dist. List</small>	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549	<small>Fremont Dist. List (@fremontenv.com) (paulh) (ethanb) (alick) (mike) (jello) (chris) (otam) (aron)</small>	AFE#:	
Phone: 603-477-6907	Project Name: Noble - Lower Latham Reservoir PG C Tank	PO/Billing Codes: UWRWE-AZ455-ARJ	
Sampler Name: Ethan Black	Project Number:	Contact: Mike Montoya	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	
1	WFL Riser Combi Trench 3ft	3/18/24		2			X						X	X	X	X		
2	E FL Riser Combi Trench 3ft																	
3	EAST DL 3FT																	
4	MED DL 3FT																	
5	WEST DL 3FT																	
6	S AST 1FT																	
7	MED AST 1FT																	
8	N AST 1FT																	
9	N WALL 3FT																	
10	NE WALL 3FT																	
11	NW WALL 3FT																	
12	N FLOOR 4FT																	
13	MED W WALL 3FT																	
14	MED E WALL 3FT																	
15	MED FLOOR 4FT																	

Relinquished by: <i>Ethan Black</i>	Date/Time: 3/18/24 1554	Received by: S2 - North Office	Date/Time: 3/18/24 1554	TAT Business Days	Field DO	Notes:
Relinquished by: S2	Date/Time: 3/18/24 1650	Received by: <i>[Signature]</i>	Date/Time: 3/18/24 1650	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: 10.4	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:	Standard <input checked="" type="checkbox"/>	Field Turb.	

SUMMIT SCIENTIFIC

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

Lab ID Page 2 of 2
2403219-2

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: Chevron Dist. List, PDC Dist. List, Civitas Dist. List		Project Name/Location:	
Phone: 603-477-6907		Fremont Dist. List (@fremontenv.com): pauH, ethanB, nickL, mikeG, jeffG, christL, stanG, aaronO		AFE#:	
Sampler Name: Ethan Black		Project Name: Noble-Lower Latham Reservoir PG C Tank		PO/Billing Codes: UJRW E-A2455-ARJ	
		Project Number:		Contact: Mike Montoya	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C96)	PAH	SAR, EC, pH, Boron		Metals (Table 915-1)
1	S WALL 3FT	3/18/24		2			X			X			X	X	X	X		
2	SE WALL 3FT																	
3	SW WALL 3FT																	
4	S Floor 4FT																	
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: Ethan Black	Date/Time: 3/18/24 1554	Received by: S2 - North Office	Date/Time: 3/18/24 1534	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: 52	Date/Time: 3/18/24 11030	Received by: [Signature]	Date/Time: 3/18/24 11030	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: [Signature]	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 16.4				Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:

S2

2/2

Sample Receipt Checklist

S2 Work Order# 24032019

Client: Fremont

Client Project ID: Noble-Lowerlatham Res. PGC Tank

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

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

Temp (°C) 16.4 Thermometer # 1

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

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

AS
Custodian Printed Name

3/18/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

W FL Riser Combi Trench 3FT
2403269-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0492	123 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0424	106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.3	82.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

W FL Riser Combi Trench 3FT
2403269-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0220	66.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0201	60.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 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 - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**W FL Riser Combi Trench 3FT
2403269-01 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.55	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B
Barium	185	0.400	"	"	"	"	"	"
Cadmium	0.234	0.200	"	"	"	"	"	"
Copper	7.92	0.400	"	"	"	"	"	"
Lead	7.38	0.200	"	"	"	"	"	"
Nickel	6.42	0.400	"	"	"	"	"	"
Silver	0.0281	0.0200	"	"	"	"	"	"
Zinc	28.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.0	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	5.78	0.0500	"	"	"	"	"	"	
Sodium	2.78	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.112	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 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 - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**W FL Riser Combi Trench 3FT
 2403269-01 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.4	%	1	BHC0662	03/19/24	03/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

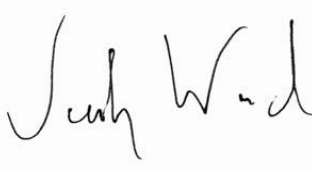
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.225	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

E FL Riser Combi Trench 3FT
2403269-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0469	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0420	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.5	92.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

E FL Riser Combi Trench 3FT
2403269-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0215	64.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	57.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

E FL Riser Combi Trench 3FT
2403269-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.74	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	0.211	0.200	"	"	"	"	"	"	
Copper	7.36	0.400	"	"	"	"	"	"	
Lead	7.69	0.200	"	"	"	"	"	"	
Nickel	6.86	0.400	"	"	"	"	"	"	
Silver	0.0282	0.0200	"	"	"	"	"	"	
Zinc	30.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.5	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	11.9	0.0500	"	"	"	"	"	"	
Sodium	0.925	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0273	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BHC0662	03/19/24	03/26/24	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**E FL Riser Combi Trench 3FT
 2403269-02 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

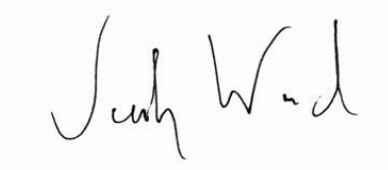
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.165	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**E FL Riser Combi Trench 3FT
 2403269-02 (Soil)**


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	143	0.400	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**East DL 3FT
2403269-03 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0470	118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.3	82.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

East DL 3FT
2403269-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0276	82.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0260	78.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**East DL 3FT
2403269-03 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.36	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Barium	159	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.60	0.400	"	"	"	"	"	"	
Lead	6.63	0.200	"	"	"	"	"	"	
Nickel	6.45	0.400	"	"	"	"	"	"	
Silver	0.0212	0.0200	"	"	"	"	"	"	
Zinc	25.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.8	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	6.95	0.0500	"	"	"	"	"	"	
Sodium	8.17	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.321	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**East DL 3FT
 2403269-03 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.7		%	1	BHC0662	03/19/24	03/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.260	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Mid DL 3FT
2403269-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0472	118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.4	83.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Mid DL 3FT
2403269-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Mid DL 3FT
2403269-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.40	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	0.204	0.200	"	"	"	"	"	"	
Copper	8.22	0.400	"	"	"	"	"	"	
Lead	7.58	0.200	"	"	"	"	"	"	
Nickel	7.36	0.400	"	"	"	"	"	"	
Silver	0.0263	0.0200	"	"	"	"	"	"	
Zinc	31.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.7	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	6.93	0.0500	"	"	"	"	"	"	
Sodium	0.996	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0351	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BHC0662	03/19/24	03/26/24	Calculation	

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Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

Mid DL 3FT
2403269-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

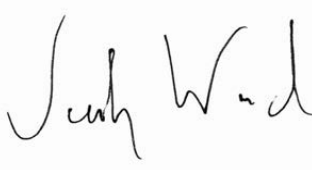
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.157	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

Mid DL 3FT
2403269-04 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	175	0.400	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

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Fremont Environmental
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Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

West DL 3FT
2403269-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0216	54.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0425	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.1	89.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

West DL 3FT
2403269-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0228	68.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	3.56	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**West DL 3FT
2403269-05 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.77	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	0.229	0.200	"	"	"	"	"	"	
Copper	8.50	0.400	"	"	"	"	"	"	
Lead	8.92	0.200	"	"	"	"	"	"	
Nickel	8.84	0.400	"	"	"	"	"	"	
Silver	0.0291	0.0200	"	"	"	"	"	"	
Zinc	38.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	607	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	36.4	0.0500	"	"	"	"	"	"	
Sodium	458	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.88	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	BHC0662	03/19/24	03/26/24	Calculation	

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Fremont Environmental
 PO Box 1289
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Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**West DL 3FT
 2403269-05 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.52	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.48		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

West DL 3FT
2403269-05 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	150	0.400	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

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Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

S Ast 1FT
2403269-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0467	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.2	81.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A2455-ABN
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Reported:
05/29/24 13:33

S Ast 1FT
2403269-06 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0230	69.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A2455-ABN
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Reported:
05/29/24 13:33

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2403269-06 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.51	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	0.205	0.200	"	"	"	"	"	"	
Copper	7.13	0.400	"	"	"	"	"	"	
Lead	7.22	0.200	"	"	"	"	"	"	
Nickel	6.39	0.400	"	"	"	"	"	"	
Silver	0.0340	0.0200	"	"	"	"	"	"	
Zinc	26.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.7	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	8.93	0.0500	"	"	"	"	"	"	
Sodium	1.04	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0344	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BHC0662	03/19/24	03/26/24	Calculation	

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Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**S Ast 1FT
 2403269-06 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

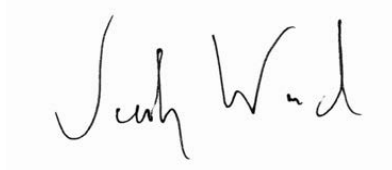
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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2403269-06 (Soil)


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Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	181	0.400	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

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Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Mid Ast 1FT
2403269-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0472	118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.5	84.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2403269-07 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0200	60.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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2403269-07 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.33	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	0.215	0.200	"	"	"	"	"	"	
Copper	7.28	0.400	"	"	"	"	"	"	
Lead	6.90	0.200	"	"	"	"	"	"	
Nickel	6.39	0.400	"	"	"	"	"	"	
Silver	0.0336	0.0200	"	"	"	"	"	"	
Zinc	26.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.5	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	8.88	0.0500	"	"	"	"	"	"	
Sodium	0.571	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0199	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.8		%	1	BHC0662	03/19/24	03/26/24	Calculation	

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**Mid Ast 1FT
 2403269-07 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.123	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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**Mid Ast 1FT
 2403269-07 (Soil)**


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Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	177	0.360	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

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Project Number: UWRWE-A2455-ABN
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Reported:
05/29/24 13:33

N Ast 1FT
2403269-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0497	124 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0423	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.0	96.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	64.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0197	59.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

N Ast 1FT
2403269-08 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.98	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Barium	210	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.93	0.400	"	"	"	"	"	"	
Lead	5.92	0.200	"	"	"	"	"	"	
Nickel	5.08	0.400	"	"	"	"	"	"	
Silver	0.0255	0.0200	"	"	"	"	"	"	
Zinc	22.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.8	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	9.12	0.0500	"	"	"	"	"	"	
Sodium	2.77	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0900	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**N Ast 1FT
 2403269-08 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHC0662	03/19/24	03/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.127	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

N Wall 3FT
2403269-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0481	120 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0385	96.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.7	109 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

N Wall 3FT
2403269-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0228	68.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

N Wall 3FT
2403269-09 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.46	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.26	0.400	"	"	"	"	"	"	
Lead	7.60	0.200	"	"	"	"	"	"	
Nickel	7.03	0.400	"	"	"	"	"	"	
Silver	0.0238	0.0200	"	"	"	"	"	"	
Zinc	29.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	61.8	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	9.70	0.0500	"	"	"	"	"	"	
Sodium	0.656	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0205	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

N Wall 3FT
2403269-09 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.7	%	1	BHC0662	03/19/24	03/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.178	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
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Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

N Wall 3FT
2403269-09 (Soil)


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Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	154	0.400	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**NE Wall 3FT
2403269-10 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B		
Toluene	ND	0.0050	"	"	"	"	"	"		
Ethylbenzene	ND	0.0050	"	"	"	"	"	"		
Xylenes (total)	ND	0.010	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"		
Naphthalene	ND	0.0038	"	"	"	"	"	"		
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"		

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0256	63.9 %	50-150	"	"	"	"	"		
Surrogate: Toluene-d8	0.0399	99.8 %	50-150	"	"	"	"	"		
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %	50-150	"	"	"	"	"		

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M		
C28-C36 (ORO)	ND	50	"	"	"	"	"	"		

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.8	86.6 %	30-150	"	"	"	"	"		

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

NE Wall 3FT
2403269-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**NE Wall 3FT
2403269-10 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.46	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	0.205	0.200	"	"	"	"	"	"	
Copper	7.22	0.400	"	"	"	"	"	"	
Lead	7.66	0.200	"	"	"	"	"	"	
Nickel	7.38	0.400	"	"	"	"	"	"	
Silver	0.0279	0.0200	"	"	"	"	"	"	
Zinc	30.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.4	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	6.92	0.0500	"	"	"	"	"	"	
Sodium	1.75	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0669	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BHC0662	03/19/24	03/26/24	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**NE Wall 3FT
 2403269-10 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

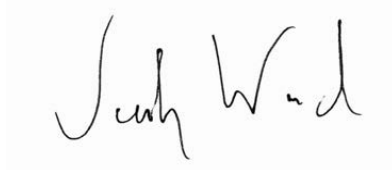
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.164	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**NE Wall 3FT
 2403269-10 (Soil)**


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	202	0.400	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**NW Wall 3FT
2403269-11 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0268	67.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.8	94.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**NW Wall 3FT
2403269-11 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0226	67.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0226	67.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**NW Wall 3FT
2403269-11 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.91	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	0.279	0.200	"	"	"	"	"	"	
Copper	13.0	0.400	"	"	"	"	"	"	
Lead	10.5	0.200	"	"	"	"	"	"	
Nickel	14.9	0.400	"	"	"	"	"	"	
Silver	0.0276	0.0200	"	"	"	"	"	"	
Zinc	55.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.7	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	8.91	0.0500	"	"	"	"	"	"	
Sodium	1.32	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0400	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BHC0662	03/19/24	03/26/24	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

NW Wall 3FT
2403269-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

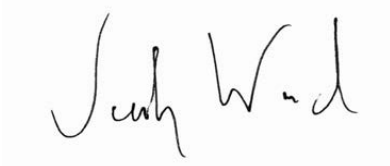
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.131	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

NW Wall 3FT
2403269-11 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	163	0.400	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Floor 4FT
2403269-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0280	70.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.5	100 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

Floor 4FT
2403269-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0217	65.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Floor 4FT
2403269-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.40	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Barium	149	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.42	0.400	"	"	"	"	"	"	
Lead	7.29	0.200	"	"	"	"	"	"	
Nickel	6.70	0.400	"	"	"	"	"	"	
Silver	0.0213	0.0200	"	"	"	"	"	"	
Zinc	28.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	83.2	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	11.0	0.0500	"	"	"	"	"	"	
Sodium	5.54	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.152	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

Floor 4FT
2403269-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.2		%	1	BHC0662	03/19/24	03/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.163	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**Mid W Wall 3FT
2403269-13 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0312	78.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.7	93.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Mid W Wall 3FT
2403269-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0190	57.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0198	59.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**Mid W Wall 3FT
2403269-13 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.61	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	7.04	0.400	"	"	"	"	"	"	
Lead	7.73	0.200	"	"	"	"	"	"	
Nickel	7.29	0.400	"	"	"	"	"	"	
Silver	0.0242	0.0200	"	"	"	"	"	"	
Zinc	30.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	79.6	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	10.6	0.0500	"	"	"	"	"	"	
Sodium	0.957	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0267	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**Mid W Wall 3FT
 2403269-13 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.1	%	1	BHC0662	03/19/24	03/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.145	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

Mid W Wall 3FT
2403269-13 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	148	0.400	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**Mid E Wall 3FT
2403269-14 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0302	75.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.6	101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**Mid E Wall 3FT
2403269-14 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0253	75.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0253	75.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 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 - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**Mid E Wall 3FT
2403269-14 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.70	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.80	0.400	"	"	"	"	"	"	
Lead	5.82	0.200	"	"	"	"	"	"	
Nickel	6.55	0.400	"	"	"	"	"	"	
Silver	0.0362	0.0200	"	"	"	"	"	"	
Zinc	23.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.1	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	7.96	0.0500	"	"	"	"	"	"	
Sodium	18.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.656	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 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 - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**Mid E Wall 3FT
 2403269-14 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	92.7	%	1	BHC0662	03/19/24	03/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.247	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

Mid E Wall 3FT
2403269-14 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	126	0.362	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**Mid Floor 4FT
2403269-15 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0362	90.4 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.8 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	13.3	106 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**Mid Floor 4FT
2403269-15 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0240	72.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0234	70.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**Mid Floor 4FT
2403269-15 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.84	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Barium	135	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.45	0.400	"	"	"	"	"	"	
Lead	7.91	0.200	"	"	"	"	"	"	
Nickel	7.17	0.400	"	"	"	"	"	"	
Silver	0.0255	0.0200	"	"	"	"	"	"	
Zinc	28.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.4	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	6.73	0.0500	"	"	"	"	"	"	
Sodium	5.20	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.178	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**Mid Floor 4FT
 2403269-15 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BHC0662	03/19/24	03/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.144	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

S Wall 3FT
2403269-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0300	75.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0450	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.1	88.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

S Wall 3FT
2403269-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0227	68.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 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 - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

S Wall 3FT
2403269-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.47	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	7.08	0.400	"	"	"	"	"	"	
Lead	7.24	0.200	"	"	"	"	"	"	
Nickel	7.07	0.400	"	"	"	"	"	"	
Silver	0.0491	0.0200	"	"	"	"	"	"	
Zinc	29.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	99.9	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	14.4	0.0500	"	"	"	"	"	"	
Sodium	4.72	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.117	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

S Wall 3FT
2403269-16 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.6	%	1	BHC0662	03/19/24	03/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.149	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

S Wall 3FT
2403269-16 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	166	0.400	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

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Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

SE Wall 3FT
2403269-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0312	78.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	96.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.4	83.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
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Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

SE Wall 3FT
2403269-17 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0221	66.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0215	64.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

SE Wall 3FT
2403269-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.19	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Barium	169	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.39	0.400	"	"	"	"	"	"	
Lead	6.80	0.200	"	"	"	"	"	"	
Nickel	5.67	0.400	"	"	"	"	"	"	
Silver	0.0261	0.0200	"	"	"	"	"	"	
Zinc	25.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.3	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	8.05	0.0500	"	"	"	"	"	"	
Sodium	9.95	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.346	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**SE Wall 3FT
2403269-17 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.9		%	1	BHC0662	03/19/24	03/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.185	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**SW Wall 3FT
2403269-18 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0340	85.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.3	90.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

SW Wall 3FT
2403269-18 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0217	65.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0201	60.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

**SW Wall 3FT
2403269-18 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.35	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.76	0.400	"	"	"	"	"	"	
Lead	7.04	0.200	"	"	"	"	"	"	
Nickel	6.80	0.400	"	"	"	"	"	"	
Silver	0.0210	0.0200	"	"	"	"	"	"	
Zinc	31.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	108	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	15.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.382	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 PO Box 1289
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Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

**SW Wall 3FT
 2403269-18 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.4	%	1	BHC0662	03/19/24	03/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.209	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

SW Wall 3FT
2403269-18 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	131	0.400	mg/kg dry	1	BHE0567	05/17/24	05/22/24	EPA 6020B	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

S Floor 4FT
2403269-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0757	03/20/24	03/22/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0344	86.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0761	03/20/24	03/21/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.52	76.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

S Floor 4FT
2403269-19 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0830	03/21/24	03/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0240	72.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0677	03/19/24	04/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/18/24 00:00**

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

Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

S Floor 4FT
2403269-19 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.70	0.200	mg/kg dry	1	BHC0745	03/20/24	04/18/24	EPA 6020B	
Barium	201	0.400	"	"	"	"	"	"	
Cadmium	0.206	0.200	"	"	"	"	"	"	
Copper	8.44	0.400	"	"	"	"	"	"	
Lead	7.48	0.200	"	"	"	"	"	"	
Nickel	7.69	0.400	"	"	"	"	"	"	
Silver	0.0281	0.0200	"	"	"	"	"	"	
Zinc	34.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0675	03/19/24	03/25/24	EPA 7196A	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.6	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	9.51	0.0500	"	"	"	"	"	"	
Sodium	5.26	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.161	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

S Floor 4FT
2403269-19 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.2	%	1	BHC0662	03/19/24	03/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/18/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.191	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0757 - EPA 5030 Soil MS

Blank (BHC0757-BLK1)

Prepared: 03/20/24 Analyzed: 03/22/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0245		"	0.0400		61.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0400		"	0.0400		99.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.5	50-150			

LCS (BHC0757-BS1)

Prepared: 03/20/24 Analyzed: 03/22/24

Benzene	0.0816	0.0020	mg/kg	0.100		81.6	70-130			
Toluene	0.109	0.0050	"	0.100		109	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.214	0.010	"	0.200		107	70-130			
o-Xylene	0.104	0.0050	"	0.100		104	70-130			
1,2,4-Trimethylbenzene	0.0935	0.0050	"	0.100		93.5	70-130			
1,3,5-Trimethylbenzene	0.0973	0.0050	"	0.100		97.3	70-130			
Naphthalene	0.0779	0.0038	"	0.100		77.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0201		"	0.0400		50.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0414		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0394		"	0.0400		98.5	50-150			

Matrix Spike (BHC0757-MS1)

Source: 2403269-01

Prepared: 03/20/24 Analyzed: 03/22/24

Benzene	0.0722	0.0020	mg/kg	0.100	ND	72.2	70-130			
Toluene	0.0947	0.0050	"	0.100	ND	94.7	70-130			
Ethylbenzene	0.0881	0.0050	"	0.100	ND	88.1	70-130			
m,p-Xylene	0.172	0.010	"	0.200	ND	85.8	70-130			
o-Xylene	0.0838	0.0050	"	0.100	ND	83.8	70-130			
1,2,4-Trimethylbenzene	0.0690	0.0050	"	0.100	ND	69.0	70-130			QM-07
1,3,5-Trimethylbenzene	0.0734	0.0050	"	0.100	ND	73.4	70-130			
Naphthalene	0.0533	0.0038	"	0.100	ND	53.3	70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0188		"	0.0400		47.0	50-150			QM-07
<i>Surrogate: Toluene-d8</i>	0.0422		"	0.0400		106	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0392		"	0.0400		98.0	50-150			

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Fremont Environmental
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Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0757 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0757-MSD1)	Source: 2403269-01			Prepared: 03/20/24 Analyzed: 03/22/24						
Benzene	0.0685	0.0020	mg/kg	0.100	ND	68.5	70-130	5.37	30	QM-07
Toluene	0.0896	0.0050	"	0.100	ND	89.6	70-130	5.50	30	
Ethylbenzene	0.0884	0.0050	"	0.100	ND	88.4	70-130	0.272	30	
m,p-Xylene	0.171	0.010	"	0.200	ND	85.6	70-130	0.192	30	
o-Xylene	0.0833	0.0050	"	0.100	ND	83.3	70-130	0.575	30	
1,2,4-Trimethylbenzene	0.0688	0.0050	"	0.100	ND	68.8	70-130	0.261	30	QM-07
1,3,5-Trimethylbenzene	0.0723	0.0050	"	0.100	ND	72.3	70-130	1.52	30	
Naphthalene	0.0517	0.0038	"	0.100	ND	51.7	70-130	3.03	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0469		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.3	50-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0761 - EPA 3550A

Blank (BHC0761-BLK1)

Prepared & Analyzed: 03/20/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	18.2		"	12.5		145		30-150			

LCS (BHC0761-BS1)

Prepared & Analyzed: 03/20/24

C10-C28 (DRO)	572	50	mg/kg	500		114		70-130			
Surrogate: <i>o</i> -Terphenyl	14.7		"	12.5		117		30-150			

Matrix Spike (BHC0761-MS1)

Source: 2403269-01

Prepared & Analyzed: 03/20/24

C10-C28 (DRO)	568	50	mg/kg	500	8.88	112		70-130			
Surrogate: <i>o</i> -Terphenyl	11.0		"	12.5		88.2		30-150			

Matrix Spike Dup (BHC0761-MSD1)

Source: 2403269-01

Prepared & Analyzed: 03/20/24

C10-C28 (DRO)	594	50	mg/kg	500	8.88	117		70-130	4.50	20	
Surrogate: <i>o</i> -Terphenyl	10.8		"	12.5		86.1		30-150			

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Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BHC0830 - EPA 5030 Soil MS

Blank (BHC0830-BLK1)

Prepared: 03/21/24 Analyzed: 03/23/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0303</i>		"	<i>0.0333</i>		<i>90.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0301</i>		"	<i>0.0333</i>		<i>90.4</i>	<i>40-150</i>			

LCS (BHC0830-BS1)

Prepared: 03/21/24 Analyzed: 03/23/24

Acenaphthene	0.0298	0.00500	mg/kg	0.0333		89.4	31-137			
Anthracene	0.0303	0.00500	"	0.0333		91.0	30-120			
Benzo (a) anthracene	0.0320	0.00500	"	0.0333		95.9	30-120			
Benzo (a) pyrene	0.0281	0.00500	"	0.0333		84.4	30-120			
Benzo (b) fluoranthene	0.0282	0.00500	"	0.0333		84.7	30-120			
Benzo (k) fluoranthene	0.0248	0.00500	"	0.0333		74.3	30-120			
Chrysene	0.0284	0.00500	"	0.0333		85.3	30-120			
Dibenz (a,h) anthracene	0.0305	0.00500	"	0.0333		91.5	30-120			
Fluoranthene	0.0294	0.00500	"	0.0333		88.3	30-120			
Fluorene	0.0287	0.00500	"	0.0333		86.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0268	0.00500	"	0.0333		80.3	30-120			
Pyrene	0.0358	0.00500	"	0.0333		107	35-142			
1-Methylnaphthalene	0.0306	0.00500	"	0.0333		91.8	35-142			
2-Methylnaphthalene	0.0361	0.00500	"	0.0333		108	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0308</i>		"	<i>0.0333</i>		<i>92.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0309</i>		"	<i>0.0333</i>		<i>92.7</i>	<i>40-150</i>			

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Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0830 - EPA 5030 Soil MS

Matrix Spike (BHC0830-MS1)

Source: 2403269-01

Prepared: 03/21/24 Analyzed: 03/23/24

Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	63.9	31-137			
Anthracene	0.0215	0.00500	"	0.0333	ND	64.5	30-120			
Benzo (a) anthracene	0.0231	0.00500	"	0.0333	ND	69.2	30-120			
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.5	30-120			
Benzo (b) fluoranthene	0.0207	0.00500	"	0.0333	ND	62.0	30-120			
Benzo (k) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.5	30-120			
Chrysene	0.0203	0.00500	"	0.0333	ND	60.9	30-120			
Dibenz (a,h) anthracene	0.0199	0.00500	"	0.0333	ND	59.6	30-120			
Fluoranthene	0.0211	0.00500	"	0.0333	ND	63.2	30-120			
Fluorene	0.0185	0.00500	"	0.0333	ND	55.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333	ND	54.1	30-120			
Pyrene	0.0255	0.00500	"	0.0333	ND	76.5	35-142			
1-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.7	15-130			
2-Methylnaphthalene	0.0286	0.00500	"	0.0333	ND	85.9	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0213		"	0.0333		63.8	40-150			
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.6	40-150			

Matrix Spike Dup (BHC0830-MSD1)

Source: 2403269-01

Prepared: 03/21/24 Analyzed: 03/23/24

Acenaphthene	0.0194	0.00500	mg/kg	0.0333	ND	58.2	31-137	9.32	30
Anthracene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	7.39	30
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	11.9	30
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	13.8	30
Benzo (b) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	16.5	30
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	18.0	30
Chrysene	0.0179	0.00500	"	0.0333	ND	53.8	30-120	12.3	30
Dibenz (a,h) anthracene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	3.56	30
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	8.90	30
Fluorene	0.0186	0.00500	"	0.0333	ND	55.6	30-120	0.219	30
Indeno (1,2,3-cd) pyrene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	7.16	30
Pyrene	0.0222	0.00500	"	0.0333	ND	66.7	35-142	13.7	30
1-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	55.0	15-130	22.1	50
2-Methylnaphthalene	0.0282	0.00500	"	0.0333	ND	84.6	15-130	1.58	50
Surrogate: 2-Methylnaphthalene-d10	0.0204		"	0.0333		61.3	40-150		
Surrogate: Fluoranthene-d10	0.0202		"	0.0333		60.5	40-150		

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Project: Noble - Lower Latham Reservoir PG C Tank
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

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

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

Batch BHC0677 - EPA 3050B

Blank (BHC0677-BLK1)				Prepared: 03/19/24 Analyzed: 04/07/24						
Boron	ND	2.00	mg/L							
LCS (BHC0677-BS1)				Prepared: 03/19/24 Analyzed: 04/07/24						
Boron	4.94	2.00	mg/L	5.00		98.8	80-120			
Duplicate (BHC0677-DUP1)				Source: 2403269-01 Prepared: 03/19/24 Analyzed: 04/07/24						
Boron	0.188	2.00	mg/L		0.190			1.01	20	
Matrix Spike (BHC0677-MS1)				Source: 2403269-01 Prepared: 03/19/24 Analyzed: 04/07/24						
Boron	5.17	2.00	mg/L	5.00	0.190	99.7	75-125			
Matrix Spike Dup (BHC0677-MSD1)				Source: 2403269-01 Prepared: 03/19/24 Analyzed: 04/07/24						
Boron	5.15	2.00	mg/L	5.00	0.190	99.3	75-125	0.395	25	

Batch BHE0608 - EPA 3050B

Blank (BHE0608-BLK1)				Prepared: 05/20/24 Analyzed: 05/21/24						
Boron	ND	2.00	mg/L							
LCS (BHE0608-BS1)				Prepared: 05/20/24 Analyzed: 05/21/24						
Boron	5.14	2.00	mg/L	5.00		103	80-120			
Duplicate (BHE0608-DUP1)				Source: 2403269-05RE1 Prepared: 05/20/24 Analyzed: 05/22/24						
Boron	6.21	2.00	mg/L		5.98			3.85	20	
Matrix Spike (BHE0608-MS1)				Source: 2403269-05RE1 Prepared: 05/20/24 Analyzed: 05/22/24						
Boron	14.0	2.00	mg/L	4.97	5.98	162	75-125			QM-05

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

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

Summit Scientific

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

Batch BHE0608 - EPA 3050B

Matrix Spike Dup (BHE0608-MSD1)

Source: 2403269-05RE1

Prepared: 05/20/24 Analyzed: 05/22/24

Boron	12.5	2.00	mg/L	4.97	5.98	130	75-125	11.8	25	QM-05
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0745 - EPA 3050B

Blank (BHC0745-BLK1)

Prepared: 03/20/24 Analyzed: 04/18/24

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

LCS (BHC0745-BS1)

Prepared: 03/20/24 Analyzed: 04/18/24

Arsenic	40.4	0.200	mg/kg wet	40.0	101	80-120
Barium	41.4	0.400	"	40.0	104	80-120
Cadmium	2.09	0.200	"	2.00	105	80-120
Copper	40.8	0.400	"	40.0	102	80-120
Lead	20.3	0.200	"	20.0	102	80-120
Nickel	40.4	0.400	"	40.0	101	80-120
Silver	2.05	0.0200	"	2.00	103	80-120
Zinc	42.0	0.400	"	40.0	105	80-120
Selenium	4.23	0.260	"	4.00	106	80-120

Duplicate (BHC0745-DUP1)

Source: 2403269-01

Prepared: 03/20/24 Analyzed: 04/18/24

Arsenic	2.38	0.200	mg/kg dry	2.55	6.73	20
Barium	168	0.400	"	185	9.43	20
Cadmium	0.208	0.200	"	0.234	11.9	20
Copper	7.09	0.400	"	7.92	11.0	20
Lead	7.01	0.200	"	7.38	5.16	20
Nickel	6.25	0.400	"	6.42	2.74	20
Silver	0.0299	0.0200	"	0.0281	6.25	20
Zinc	27.9	0.400	"	28.9	3.31	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0745 - EPA 3050B

Matrix Spike (BHC0745-MS1)

Source: 2403269-01

Prepared: 03/20/24 Analyzed: 04/18/24

Arsenic	48.7	0.200	mg/kg dry	45.3	2.55	102	75-125			
Barium	240	0.400	"	45.3	185	122	75-125			
Cadmium	2.59	0.200	"	2.26	0.234	104	75-125			
Copper	54.8	0.400	"	45.3	7.92	104	75-125			
Lead	30.4	0.200	"	22.6	7.38	102	75-125			
Nickel	53.9	0.400	"	45.3	6.42	105	75-125			
Silver	2.33	0.0200	"	2.26	0.0281	102	75-125			
Zinc	76.4	0.400	"	45.3	28.9	105	75-125			
Selenium	4.12	0.260	"	4.53	ND	91.0	75-125			

Matrix Spike Dup (BHC0745-MSD1)

Source: 2403269-01

Prepared: 03/20/24 Analyzed: 04/18/24

Arsenic	49.4	0.200	mg/kg dry	45.3	2.55	103	75-125	1.31	25
Barium	240	0.400	"	45.3	185	122	75-125	0.0304	25
Cadmium	2.57	0.200	"	2.26	0.234	103	75-125	0.719	25
Copper	55.0	0.400	"	45.3	7.92	104	75-125	0.357	25
Lead	30.6	0.200	"	22.6	7.38	102	75-125	0.589	25
Nickel	54.3	0.400	"	45.3	6.42	106	75-125	0.675	25
Silver	2.34	0.0200	"	2.26	0.0281	102	75-125	0.408	25
Zinc	76.3	0.400	"	45.3	28.9	105	75-125	0.156	25
Selenium	4.25	0.260	"	4.53	ND	94.0	75-125	3.20	25

Batch BHE0567 - EPA 3050B

Blank (BHE0567-BLK1)

Prepared: 05/17/24 Analyzed: 05/20/24

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

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 - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHE0567 - EPA 3050B

LCS (BHE0567-BS1)

Prepared: 05/17/24 Analyzed: 05/20/24

Arsenic	40.0	0.200	mg/kg wet	40.0		99.9	80-120			
Barium	41.9	0.400	"	40.0		105	80-120			
Cadmium	2.03	0.200	"	2.00		102	80-120			
Copper	39.2	0.400	"	40.0		98.0	80-120			
Lead	19.9	0.200	"	20.0		99.7	80-120			
Nickel	38.5	0.400	"	40.0		96.3	80-120			
Silver	2.02	0.0200	"	2.00		101	80-120			
Zinc	39.6	0.400	"	40.0		99.1	80-120			
Selenium	4.57	0.260	"	4.00		114	80-120			

Duplicate (BHE0567-DUP1)

Source: 2403269-01RE1

Prepared: 05/17/24 Analyzed: 05/20/24

Arsenic	2.43	0.200	mg/kg dry		2.39			1.62	20	
Barium	187	0.400	"		225			18.3	20	
Cadmium	0.231	0.200	"		0.214			7.30	20	
Copper	3.91	0.400	"		3.75			4.36	20	
Lead	7.12	0.200	"		6.88			3.42	20	
Nickel	3.39	0.400	"		3.21			5.37	20	
Silver	0.0310	0.0200	"		0.0285			8.59	20	
Zinc	15.3	0.400	"		14.6			4.28	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BHE0567-MS1)

Source: 2403269-01RE1

Prepared: 05/17/24 Analyzed: 05/20/24

Arsenic	46.0	0.200	mg/kg dry	43.2	2.39	101	75-125			
Barium	221	0.400	"	43.2	225	NR	75-125			QM-05
Cadmium	2.61	0.200	"	2.16	0.214	111	75-125			
Copper	27.8	0.400	"	43.2	3.75	55.7	75-125			QM-05
Lead	29.4	0.200	"	21.6	6.88	104	75-125			
Nickel	27.6	0.400	"	43.2	3.21	56.5	75-125			QM-05
Silver	2.37	0.0200	"	2.16	0.0285	108	75-125			
Zinc	39.8	0.400	"	43.2	14.6	58.2	75-125			QM-05
Selenium	4.71	0.260	"	4.32	ND	109	75-125			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHE0567 - EPA 3050B

Matrix Spike Dup (BHE0567-MSD1)

Source: 2403269-01RE1 Prepared: 05/17/24 Analyzed: 05/20/24

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
Arsenic	44.7	0.200	mg/kg dry	43.2	2.39	98.0	75-125	2.90	25	
Barium	203	0.400	"	43.2	225	NR	75-125	8.68	25	QM-05
Cadmium	2.35	0.200	"	2.16	0.214	98.7	75-125	10.7	25	
Copper	28.3	0.400	"	43.2	3.75	56.8	75-125	1.65	25	QM-05
Lead	26.9	0.200	"	21.6	6.88	92.8	75-125	8.71	25	
Nickel	27.9	0.400	"	43.2	3.21	57.2	75-125	1.05	25	QM-05
Silver	2.11	0.0200	"	2.16	0.0285	96.6	75-125	11.5	25	
Zinc	40.1	0.400	"	43.2	14.6	59.1	75-125	0.939	25	QM-05
Selenium	4.36	0.260	"	4.32	ND	101	75-125	7.79	25	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0675 - 3060A Mod

Blank (BHC0675-BLK1)

Prepared: 03/19/24 Analyzed: 03/25/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0675-BS1)

Prepared: 03/19/24 Analyzed: 03/25/24

Chromium, Hexavalent 22.9 0.30 mg/kg wet 25.0 91.6 80-120

Duplicate (BHC0675-DUP1)

Source: 2403269-01

Prepared: 03/19/24 Analyzed: 03/25/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0675-MS1)

Source: 2403269-01

Prepared: 03/19/24 Analyzed: 03/25/24

Chromium, Hexavalent 25.1 0.30 mg/kg dry 28.3 ND 88.8 75-125

Matrix Spike Dup (BHC0675-MSD1)

Source: 2403269-01

Prepared: 03/19/24 Analyzed: 03/25/24

Chromium, Hexavalent 26.1 0.30 mg/kg dry 28.3 ND 92.4 75-125 3.97 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

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

Summit Scientific

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

Batch BHD0021 - General Preparation

Blank (BHD0021-BLK1)

Prepared: 04/01/24 Analyzed: 05/14/24

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

LCS (BHD0021-BS1)

Prepared: 04/01/24 Analyzed: 05/14/24

Calcium	5.73	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.24	0.0500	"	5.00		105	70-130			
Sodium	4.99	0.0500	"	5.00		99.9	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

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


Summit Scientific

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

Batch BHC0662 - General Preparation

Duplicate (BHC0662-DUP1)	Source: 2403267-01		Prepared: 03/19/24 Analyzed: 03/26/24			
% Solids	78.1	%	76.9		1.61	20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

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

Summit Scientific

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

Batch BHD0023 - General Preparation

Blank (BHD0023-BLK1)

Prepared: 04/01/24 Analyzed: 04/02/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0023-BS1)

Prepared: 04/01/24 Analyzed: 04/02/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHD0023-DUP1)

Source: 2403269-01

Prepared: 04/01/24 Analyzed: 04/02/24

Specific Conductance (EC) 0.222 0.0100 mmhos/cm 0.225 1.39 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 05/29/24 13:33

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

Summit Scientific

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

Batch BHD0022 - General Preparation

LCS (BHD0022-BS1)

Prepared: 04/01/24 Analyzed: 04/02/24

pH	9.22		pH Units	9.18		100	95-105			
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Duplicate (BHD0022-DUP1)

Source: 2403269-01

Prepared: 04/01/24 Analyzed: 04/02/24

pH	8.16		pH Units			8.31		1.82	20	
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Batch BHE0606 - General Preparation

LCS (BHE0606-BS1)

Prepared & Analyzed: 05/20/24

pH	9.30		pH Units	9.18		101	95-105			
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Duplicate (BHE0606-DUP1)

Source: 2403269-05RE1

Prepared & Analyzed: 05/20/24

pH	9.53		pH Units			9.53		0.00	20	
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Reservoir PG C Tank

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/29/24 13:33

Notes and Definitions

- 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.
- 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

June 20, 2024

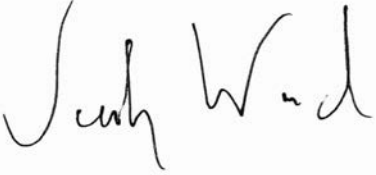
Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Lower Latham (Backgrounds)

Work Order #2403331

Enclosed are the results of analyses for samples received by Summit Scientific on 03/21/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG 1 1FT	2403331-01	Soil	03/19/24 00:00	03/21/24 16:30
BKG 1 3FT	2403331-02	Soil	03/19/24 00:00	03/21/24 16:30
BKG 1 4FT	2403331-03	Soil	03/19/24 00:00	03/21/24 16:30
BKG 2 1FT	2403331-04	Soil	03/19/24 00:00	03/21/24 16:30
BKG 2 3FT	2403331-05	Soil	03/19/24 00:00	03/21/24 16:30
BKG 2 4FT	2403331-06	Soil	03/19/24 00:00	03/21/24 16:30
BKG 3 1FT	2403331-07	Soil	03/19/24 00:00	03/21/24 16:30
BKG 3 3FT	2403331-08	Soil	03/19/24 00:00	03/21/24 16:30
BKG 3 4FT	2403331-09	Soil	03/19/24 00:00	03/21/24 16:30
BKG 4 1FT	2403331-10	Soil	03/19/24 00:00	03/21/24 16:30
BKG 4 3FT	2403331-11	Soil	03/19/24 00:00	03/21/24 16:30
BKG 4 4FT	2403331-12	Soil	03/19/24 00:00	03/21/24 16:30
BKG 5 1FT	2403331-13	Soil	03/19/24 00:00	03/21/24 16:30
BKG 5 3FT	2403331-14	Soil	03/19/24 00:00	03/21/24 16:30
BKG 5 4FT	2403331-15	Soil	03/19/24 00:00	03/21/24 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
2403331	

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: Chevron Dist. List POC Dist. List Oil/Water Dist. List	Project Name/Location:
Phone: 603-477-6907	Project Name: Noble - Lower Latham (Backgrounds)	AFE#:
Sampler Name: Ethan Black	Project Number: 02000000	PO/Billing Codes: UWRWE-A2455-ARN
		Contact: Mike Montoya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested					Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	
1	BKG 1 1FT	3/19/24					X			X					X	X		
2	BKG 1 3FT																	
3	BKG 1 4FT																	
4	BKG 2 1FT																	
5	BKG 2 3FT																	
6	BKG 2 4FT																	
7	BKG 3 1FT																	
8	BKG 3 3FT																	
9	BKG 3 4FT																	
10	BKG 4 1FT																	
11	BKG 4 3FT																	
12	BKG 4 4FT																	
13	BKG 5 1FT																	
14	BKG 5 3FT																	
15	BKG 5 4FT																	

Relinquished by: Ethan Black	Date/Time: 3/21/24 1500	Received by: S2 - North Office	Date/Time: 3/21/24 1500	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: S2	Date/Time: 3/21/24 1630	Received by: [Signature]	Date/Time: 3/21/24 1630	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: [Signature]	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 19.1	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	

S2

Sample Receipt Checklist

S2 Work Order# 2403331

Client: Fremont Client Project ID: Noble-Lowerlatham (backgrounds)

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

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

Temp (°C) 19.1 Thermometer # 1

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

AS
Custodian Printed Name

3/21/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 1 1FT
2403331-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.70	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	66.0	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.50	0.400		"	"	"	"	"	"	
Lead	9.59	0.200		"	"	"	"	"	"	
Nickel	2.61	0.400		"	"	"	"	"	"	
Silver	0.0242	0.0200		"	"	"	"	"	"	
Zinc	13.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	1320	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	84.6	0.0500		"	"	"	"	"	"	
Sodium	20.3	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

BKG 1 1FT
2403331-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.146	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.415	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 1 3FT
2403331-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.69	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	71.3	0.400		"	"	"	"	"	"	
Cadmium	0.224	0.200		"	"	"	"	"	"	
Copper	6.81	0.400		"	"	"	"	"	"	
Lead	13.9	0.200		"	"	"	"	"	"	
Nickel	3.62	0.400		"	"	"	"	"	"	
Silver	0.0259	0.0200		"	"	"	"	"	"	
Zinc	19.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	98.3	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	10.2	0.0500		"	"	"	"	"	"	
Sodium	8.26	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 1 3FT
2403331-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.212	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.458	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 1 4FT
2403331-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.58	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	81.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.83	0.400	"	"	"	"	"	"	
Lead	10.6	0.200	"	"	"	"	"	"	
Nickel	3.11	0.400	"	"	"	"	"	"	
Silver	0.0288	0.0200	"	"	"	"	"	"	
Zinc	16.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	74.3	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	7.96	0.0500	"	"	"	"	"	"	
Sodium	8.27	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

BKG 1 4FT
2403331-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.244	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.8		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.286	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.99		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 1FT
2403331-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.96	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	0.428	0.200	"	"	"	"	"	"	
Copper	6.18	0.400	"	"	"	"	"	"	
Lead	11.8	0.200	"	"	"	"	"	"	
Nickel	5.85	0.400	"	"	"	"	"	"	
Silver	0.0386	0.0200	"	"	"	"	"	"	
Zinc	25.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	32.2	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	9.50	0.0500	"	"	"	"	"	"	
Sodium	8.09	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 1FT
2403331-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.322	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.318	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

BKG 2 1FT
2403331-04 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	128	0.362	mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 3FT
2403331-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.10	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	112	0.400		"	"	"	"	"	"	
Cadmium	0.348	0.200		"	"	"	"	"	"	
Copper	5.88	0.400		"	"	"	"	"	"	
Lead	11.3	0.200		"	"	"	"	"	"	
Nickel	5.70	0.400		"	"	"	"	"	"	
Silver	0.0355	0.0200		"	"	"	"	"	"	
Zinc	25.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	60.0	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	15.7	0.0500		"	"	"	"	"	"	
Sodium	15.2	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 3FT
2403331-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.452	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.628	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 4FT
2403331-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.04	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	172	0.400		"	"	"	"	"	"	
Cadmium	0.472	0.200		"	"	"	"	"	"	
Copper	8.74	0.400		"	"	"	"	"	"	
Lead	15.8	0.200		"	"	"	"	"	"	
Nickel	8.25	0.400		"	"	"	"	"	"	
Silver	0.0486	0.0200		"	"	"	"	"	"	
Zinc	38.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	96.6	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	30.8	0.0500		"	"	"	"	"	"	
Sodium	23.7	0.0500		"	"	"	"	"	"	

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PO Box 1289
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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 4FT
2403331-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.538	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	59.3		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.753	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 1FT
2403331-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.66	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	110	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.74	0.400	"	"	"	"	"	"	
Lead	6.88	0.200	"	"	"	"	"	"	
Nickel	3.83	0.400	"	"	"	"	"	"	
Silver	0.0379	0.0200	"	"	"	"	"	"	
Zinc	17.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	24.1	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	4.24	0.0500	"	"	"	"	"	"	
Sodium	28.8	0.0500	"	"	"	"	"	"	

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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 1FT
2403331-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.42	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.0		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.412	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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PO Box 1289
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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 3FT
2403331-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.61	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.65	0.400	"	"	"	"	"	"	
Lead	6.55	0.200	"	"	"	"	"	"	
Nickel	3.57	0.400	"	"	"	"	"	"	
Silver	0.0324	0.0200	"	"	"	"	"	"	
Zinc	15.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	103	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	17.3	0.0500	"	"	"	"	"	"	
Sodium	59.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 3FT
2403331-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.43	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.29	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

BKG 3 3FT
2403331-08 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	107	0.400	mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 4FT
2403331-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.96	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.61	0.400	"	"	"	"	"	"	
Lead	6.77	0.200	"	"	"	"	"	"	
Nickel	3.73	0.400	"	"	"	"	"	"	
Silver	0.0321	0.0200	"	"	"	"	"	"	
Zinc	16.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	56.3	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	9.78	0.0500	"	"	"	"	"	"	
Sodium	34.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 4FT
2403331-09 (Soil)

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Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.11	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.4		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.760	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

BKG 3 4FT
2403331-09 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	103	0.400	mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 1FT
2403331-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.92	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.570	0.400	"	"	"	"	"	"	
Lead	4.77	0.200	"	"	"	"	"	"	
Nickel	1.01	0.400	"	"	"	"	"	"	
Silver	0.0285	0.0200	"	"	"	"	"	"	
Zinc	5.45	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	40.2	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	54.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 1FT
2403331-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.88	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.813	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

BKG 4 1FT
2403331-10 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	57.4	0.400	mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 3FT
2403331-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.34	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	52.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.566	0.400	"	"	"	"	"	"	
Lead	5.01	0.200	"	"	"	"	"	"	
Nickel	1.04	0.400	"	"	"	"	"	"	
Silver	0.0271	0.0200	"	"	"	"	"	"	
Zinc	5.62	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	46.5	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	17.8	0.0500	"	"	"	"	"	"	
Sodium	75.1	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 3FT
2403331-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.37	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.04	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 4FT
2403331-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.08	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.580	0.400	"	"	"	"	"	"	
Lead	5.18	0.200	"	"	"	"	"	"	
Nickel	1.05	0.400	"	"	"	"	"	"	
Silver	0.0299	0.0200	"	"	"	"	"	"	
Zinc	5.27	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	44.7	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	17.0	0.0500	"	"	"	"	"	"	
Sodium	65.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 4FT
2403331-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.11	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.970	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

BKG 4 4FT
2403331-12 (Soil)


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Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	62.1	0.400	mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 1FT
2403331-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.73	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	109	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	4.13	0.400		"	"	"	"	"	"	
Lead	6.85	0.200		"	"	"	"	"	"	
Nickel	3.96	0.400		"	"	"	"	"	"	
Silver	0.0351	0.0200		"	"	"	"	"	"	
Zinc	16.5	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	104	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	16.1	0.0500		"	"	"	"	"	"	
Sodium	54.4	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 1FT
2403331-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.31	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.21	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 3FT
2403331-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.65	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.17	0.400	"	"	"	"	"	"	
Lead	5.07	0.200	"	"	"	"	"	"	
Nickel	1.55	0.400	"	"	"	"	"	"	
Silver	0.0300	0.0200	"	"	"	"	"	"	
Zinc	7.29	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	100	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	26.9	0.0500	"	"	"	"	"	"	
Sodium	95.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 3FT
2403331-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.19	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.60	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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 Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

BKG 5 3FT
2403331-14 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	67.9	0.362	mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 4FT
2403331-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.08	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	57.4	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	0.695	0.400		"	"	"	"	"	"	
Lead	4.99	0.200		"	"	"	"	"	"	
Nickel	1.14	0.400		"	"	"	"	"	"	
Silver	0.0320	0.0200		"	"	"	"	"	"	
Zinc	6.17	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	60.0	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	25.0	0.0500		"	"	"	"	"	"	
Sodium	93.7	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
 Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

BKG 5 4FT
2403331-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.56	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.2		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.33	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

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

Summit Scientific

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

Batch BHC0869 - EPA 3050B

Blank (BHC0869-BLK1)

Prepared: 03/22/24 Analyzed: 05/11/24

Boron ND 2.00 mg/L

LCS (BHC0869-BS1)

Prepared: 03/22/24 Analyzed: 05/11/24

Boron 4.93 2.00 mg/L 5.00 98.6 80-120

Duplicate (BHC0869-DUP1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 05/11/24

Boron 0.233 2.00 mg/L 0.155 40.5 20 QR-01

Matrix Spike (BHC0869-MS1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 05/11/24

Boron 4.86 2.00 mg/L 5.00 0.155 94.1 75-125

Matrix Spike Dup (BHC0869-MSD1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 05/11/24

Boron 4.88 2.00 mg/L 5.00 0.155 94.5 75-125 0.455 25

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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0862 - EPA 3050B

Blank (BHC0862-BLK1)

Prepared: 03/22/24 Analyzed: 04/04/24

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

LCS (BHC0862-BS1)

Prepared: 03/22/24 Analyzed: 04/04/24

Arsenic	37.8	0.200	mg/kg wet	40.0	94.5	80-120
Barium	38.6	0.400	"	40.0	96.4	80-120
Cadmium	1.96	0.200	"	2.00	98.0	80-120
Copper	41.9	0.400	"	40.0	105	80-120
Lead	19.3	0.200	"	20.0	96.6	80-120
Nickel	41.4	0.400	"	40.0	104	80-120
Silver	1.95	0.0200	"	2.00	97.5	80-120
Zinc	41.6	0.400	"	40.0	104	80-120
Selenium	3.81	0.260	"	4.00	95.3	80-120

Duplicate (BHC0862-DUP1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 04/04/24

Arsenic	3.59	0.200	mg/kg dry	2.70	28.3	20	QR-04
Barium	71.7	0.400	"	66.0	8.36	20	
Cadmium	0.140	0.200	"	0.131	6.70	20	
Copper	3.87	0.400	"	3.50	9.97	20	
Lead	12.4	0.200	"	9.59	25.6	20	QR-04
Nickel	3.21	0.400	"	2.61	20.7	20	QR-01
Silver	0.0358	0.0200	"	0.0242	38.8	20	QR-01
Zinc	15.6	0.400	"	13.7	13.1	20	
Selenium	0.183	0.260	"	ND	200	20	QR-01

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0862 - EPA 3050B

Matrix Spike (BHC0862-MS1)	Source: 2403331-01			Prepared: 03/22/24 Analyzed: 04/04/24						
Arsenic	42.8	0.200	mg/kg dry	43.2	2.70	92.9	75-125			
Barium	103	0.400	"	43.2	66.0	85.5	75-125			
Cadmium	2.30	0.200	"	2.16	0.131	100	75-125			
Copper	35.5	0.400	"	43.2	3.50	74.1	75-125			QM-05
Lead	36.1	0.200	"	21.6	9.59	123	75-125			
Nickel	34.4	0.400	"	43.2	2.61	73.8	75-125			QM-05
Silver	2.14	0.0200	"	2.16	0.0242	97.9	75-125			
Zinc	47.0	0.400	"	43.2	13.7	77.2	75-125			
Selenium	3.64	0.260	"	4.32	ND	84.2	75-125			

Matrix Spike Dup (BHC0862-MSD1)	Source: 2403331-01			Prepared: 03/22/24 Analyzed: 04/04/24						
Arsenic	43.4	0.200	mg/kg dry	43.2	2.70	94.3	75-125	1.42	25	
Barium	102	0.400	"	43.2	66.0	83.1	75-125	0.996	25	
Cadmium	2.27	0.200	"	2.16	0.131	99.1	75-125	1.12	25	
Copper	35.1	0.400	"	43.2	3.50	73.2	75-125	1.12	25	QM-05
Lead	36.0	0.200	"	21.6	9.59	122	75-125	0.308	25	
Nickel	34.0	0.400	"	43.2	2.61	72.8	75-125	1.24	25	QM-05
Silver	2.12	0.0200	"	2.16	0.0242	97.1	75-125	0.750	25	
Zinc	46.2	0.400	"	43.2	13.7	75.2	75-125	1.79	25	
Selenium	3.62	0.260	"	4.32	ND	83.9	75-125	0.428	25	

Batch BHE0650 - EPA 3050B

Blank (BHE0650-BLK1)				Prepared: 05/21/24 Analyzed: 05/25/24						
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHE0650 - EPA 3050B

LCS (BHE0650-BS1)

Prepared: 05/21/24 Analyzed: 05/25/24

Arsenic	36.4	0.200	mg/kg wet	38.2		95.4	80-120			
Barium	38.9	0.400	"	38.2		102	80-120			
Cadmium	2.01	0.200	"	1.91		105	80-120			
Copper	41.6	0.400	"	38.2		109	80-120			
Lead	19.5	0.200	"	19.1		102	80-120			
Nickel	41.3	0.400	"	38.2		108	80-120			
Silver	1.99	0.0200	"	1.91		104	80-120			
Zinc	41.9	0.400	"	38.2		110	80-120			
Selenium	4.21	0.260	"	3.82		110	80-120			

Duplicate (BHE0650-DUP1)

Source: 2403331-01RE1

Prepared: 05/21/24 Analyzed: 05/25/24

Arsenic	2.32	0.200	mg/kg dry		2.41			3.96	20	
Barium	58.5	0.400	"		58.4			0.169	20	
Cadmium	0.0980	0.200	"		0.0958			2.23	20	
Copper	3.35	0.400	"		3.36			0.231	20	
Lead	8.31	0.200	"		7.71			7.45	20	
Nickel	2.65	0.400	"		2.48			6.81	20	
Silver	0.0199	0.0200	"		0.0216			8.33	20	
Zinc	13.7	0.400	"		12.5			8.55	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BHE0650-MS1)

Source: 2403331-01RE1

Prepared: 05/21/24 Analyzed: 05/25/24

Arsenic	41.1	0.200	mg/kg dry	40.9	2.41	94.7	75-125			
Barium	101	0.400	"	40.9	58.4	105	75-125			
Cadmium	2.26	0.200	"	2.04	0.0958	106	75-125			
Copper	32.5	0.400	"	40.9	3.36	71.3	75-125			QM-07
Lead	30.2	0.200	"	20.4	7.71	110	75-125			
Nickel	31.5	0.400	"	40.9	2.48	71.0	75-125			QM-07
Silver	2.14	0.0200	"	2.04	0.0216	103	75-125			
Zinc	42.9	0.400	"	40.9	12.5	74.4	75-125			QM-07
Selenium	4.72	0.260	"	4.09	ND	116	75-125			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHE0650 - EPA 3050B

Matrix Spike Dup (BHE0650-MSD1)	Source: 2403331-01RE1			Prepared: 05/21/24 Analyzed: 05/25/24						
Arsenic	43.3	0.200	mg/kg dry	43.2	2.41	94.7	75-125	5.13	25	
Barium	121	0.400	"	43.2	58.4	145	75-125	17.5	25	QM-07
Cadmium	2.43	0.200	"	2.16	0.0958	108	75-125	7.51	25	
Copper	34.6	0.400	"	43.2	3.36	72.4	75-125	6.31	25	QM-07
Lead	32.3	0.200	"	21.6	7.71	114	75-125	6.69	25	
Nickel	33.8	0.400	"	43.2	2.48	72.7	75-125	7.15	25	QM-07
Silver	2.29	0.0200	"	2.16	0.0216	105	75-125	6.76	25	
Zinc	46.1	0.400	"	43.2	12.5	77.8	75-125	7.14	25	
Selenium	4.74	0.260	"	4.32	ND	110	75-125	0.444	25	

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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0853 - 3060A Mod

Blank (BHC0853-BLK1)

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0853-BS1)

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 24.6 0.30 mg/kg wet 25.0 98.2 80-120

Duplicate (BHC0853-DUP1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0853-MS1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 27.6 0.30 mg/kg dry 27.0 ND 102 75-125

Matrix Spike Dup (BHC0853-MSD1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 27.6 0.30 mg/kg dry 27.0 ND 102 75-125 0.00 20

Summit Scientific

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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

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

Summit Scientific

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

Batch BHD0111 - General Preparation

Blank (BHD0111-BLK1)

Prepared: 04/03/24 Analyzed: 04/05/24

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

LCS (BHD0111-BS1)

Prepared: 04/03/24 Analyzed: 04/05/24

Calcium	4.93	0.0500	mg/L wet	5.00	98.7	70-130
Magnesium	4.92	0.0500	"	5.00	98.4	70-130
Sodium	4.95	0.0500	"	5.00	98.9	70-130

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Fremont Environmental
 PO Box 1289
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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

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


Summit Scientific

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

Batch BHC0850 - General Preparation

Duplicate (BHC0850-DUP1)	Source: 2403331-01		Prepared: 03/22/24 Analyzed: 03/28/24			
% Solids	91.7	%	92.7		1.06	20

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Fremont Environmental
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Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

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

Summit Scientific

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

Batch BHD0112 - General Preparation

Blank (BHD0112-BLK1)

Prepared: 04/03/24 Analyzed: 04/05/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0112-BS1)

Prepared: 04/03/24 Analyzed: 04/05/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHD0112-DUP1)

Source: 2403331-01

Prepared: 04/03/24 Analyzed: 04/05/24

Specific Conductance (EC) 0.410 0.0100 mmhos/cm 0.415 1.14 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
 Project Manager: Paul Henchan

Reported:
 06/20/24 10:07

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

Summit Scientific

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

Batch BHD0113 - General Preparation

LCS (BHD0113-BS1)

Prepared: 04/03/24 Analyzed: 04/05/24

pH	9.14	pH Units	9.18	99.6	95-105
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Duplicate (BHD0113-DUP1)

Source: 2403331-01

Prepared: 04/03/24 Analyzed: 04/05/24

pH	8.53	pH Units	8.63	1.17	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

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.
- 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