TABLE 1

FIELD DATA SUMMARY TABLE

NOBLE 100322

MARKUS T5N-R65W-S28 L01, WELD COUNTY, COLORADO

REM # 30204

Sample ID	Sample Date	Depth	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
AST01@6.0"	6/10/2024	0.5 Ft	40.3648950	-104.6696675	0.90	2.7 ppm
SEP01@5.0'	6/10/2024	5.0 Ft	40.3649242	-104.6700187	0.90	596.7 ppm
PWVB01@5.0'	6/10/2024	5.0 Ft	40.3649029	-104.6697134	0.90	93.5 ppm
PWVN01@4.0'	6/10/2024	4.0 Ft	40.3649225	-104.6697162	0.90	20.4 ppm

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
MARKUS T5N-R65W-S28 L01, WELD COUNTY, COLORADO
REM # 30204

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**		
AST01@6.0"	6/10/2024	0.5 Ft	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<500*	*<0.50*	*<50*	*<50*
SEP01@5.0'	6/10/2024	5.0 Ft	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	**0.037**	*<500*	42	100	*<50*
PWVB01@5.0'	6/10/2024	5.0 Ft	*<0.0020*	*<0.0050*	*<0.0050*	0.13	**0.010**	**0.21**	*<0.0038*	*<500*	27	72	*<50*
PWVN01@4.0'	6/10/2024	4.0 Ft	*<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
MARKUS T5N-R65W-S28 L01, WELD COUNTY, COLORADO
REM # 30204

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
AST01@6.0"	6/10/2024	0.5 Ft	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*
SEP01@5.0'	6/10/2024	5.0 Ft	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	0.127	*<0.00500*	*<0.00500*	**0.0628**	**0.147**
PWVB01@5.0'	6/10/2024	5.0 Ft	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*
PWVN01@4.0'	6/10/2024	4.0 Ft	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*

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

MARKUS T5N-R65W-S28 L01, WELD COUNTY, COLORADO

REM # 30204

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
AST01@6.0"	6/10/2024	0.5 Ft	7.71	0.192	0.568	*<2.00*
SEP01@5.0'	6/10/2024	5.0 Ft	7.54	0.266	0.931	*<2.00*
PWVB01@5.0'	6/10/2024	5.0 Ft	**8.87**	0.164	0.363	*<2.00*
PWVN01@4.0'	6/10/2024	4.0 Ft	7.76	0.124	0.343	*<2.00*
BKG01@6.0"	6/11/2024	0.5 Ft	**9.11**	2.14	**9.65**	*<2.00*
BKG01@4.0'	6/11/2024	4.0 Ft	8.12	0.573	2.01	*<2.00*
BKG01@5.0'	6/11/2024	5.0 Ft	8.26	0.364	1.72	*<2.00*
BKG02@6.0"	6/11/2024	0.5 Ft	**8.41**	0.656	0.996	**2.62**
BKG02@4.0'	6/11/2024	4.0 Ft	**8.33**	1.01	5.57	*<2.00*
BKG02@5.0'	6/11/2024	5.0 Ft	**8.70**	0.309	1.23	*<2.00*
BKG03@6.0"	6/11/2024	0.5 Ft	**8.38**	1.25	3.51	*<0.0198*
BKG03@4.0'	6/11/2024	4.0 Ft	8.25	0.789	2.86	*<2.00*
BKG03@5.0'	6/11/2024	5.0 Ft	8.04	0.466	2.22	*<2.00*
BKG04@6.0"	6/11/2024	0.5 Ft	**8.37**	0.875	4.12	*<2.00*
BKG04@4.0'	6/11/2024	4.0 Ft	7.92	0.289	0.709	*<2.00*
BKG04@5.0'	6/11/2024	5.0 Ft	8.22	0.293	1.04	*<2.00*
BKG05@6.0"	6/11/2024	0.5 Ft	**8.52**	0.546	2.03	*<2.00*
BKG05@4.0'	6/11/2024	4.0 Ft	**8.38**	0.343	1.60	*<2.00*
BKG05@5.0'	6/11/2024	5.0 Ft	8.23	0.614	1.88	*<2.00*
Maximum Root Background Concentration (0 - 3 ft)			**9.11**	2.14	**9.65**	**2.62**
Average Root Background Concentration (0 - 3 ft)			**8.56**	1.09	4.06	*<2.00*
Maximum Background Concentration			**9.11**	2.14	**9.65**	**2.62**

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
Average Background Concentration			**8.35**	0.701	2.74	*<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.

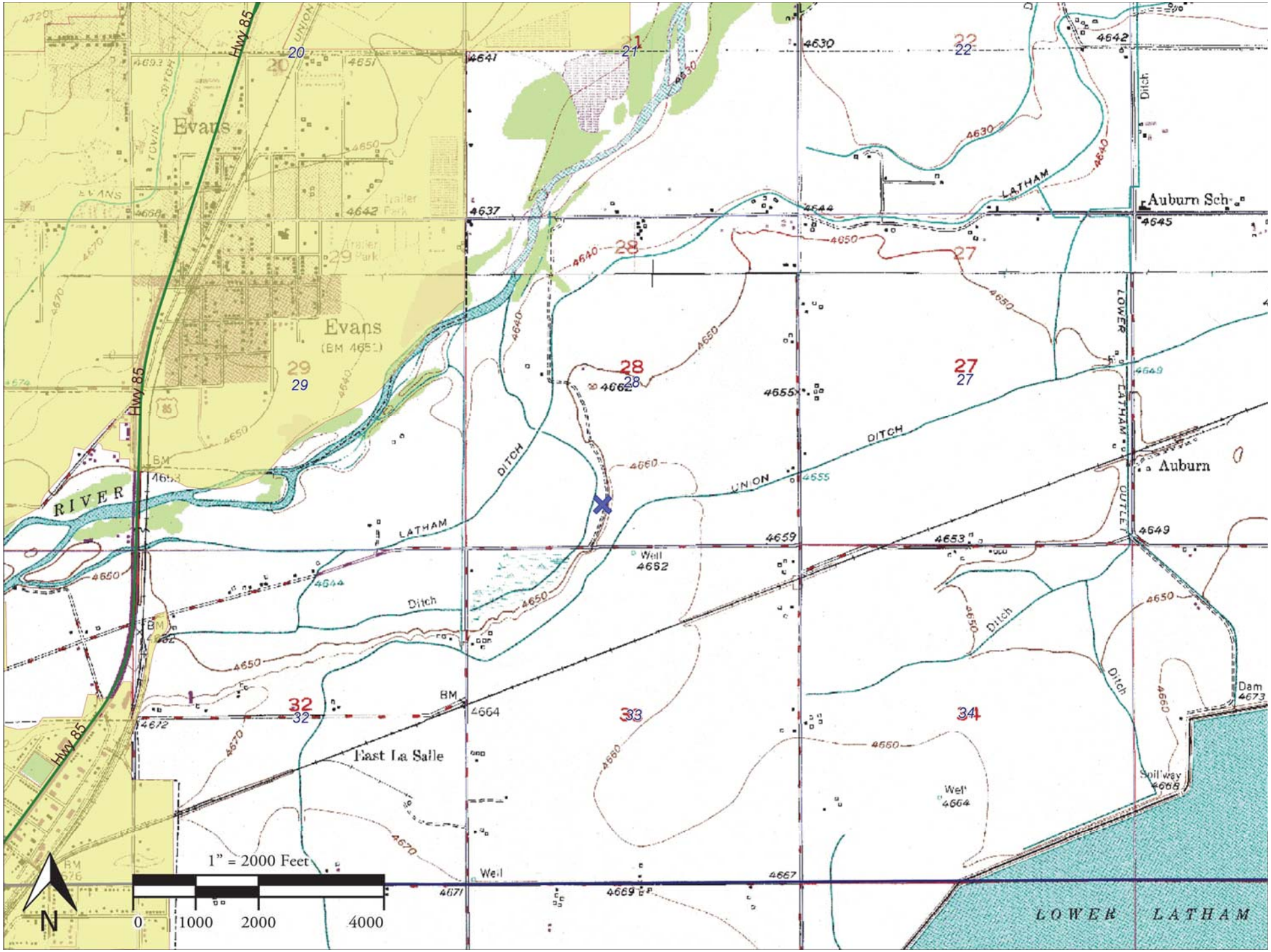
TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
MARKUS T5N-R65W-S28 L01, WELD COUNTY, COLORADO
REM # 30204

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
AST01@6.0"	6/10/2024	0.5 Ft	**1.03**	55.6	0.228	*<0.30*	7.25	13.4	2.33	*<0.260*	0.134	30.9
SEP01@5.0'	6/10/2024	5.0 Ft	**1.54**	**87.7**	0.219	*<0.30*	5.03	6.07	4.34	*<0.260*	0.0364	22.6
PWVB01@5.0'	6/10/2024	5.0 Ft	**0.927**	29.6	*<0.200*	*<0.30*	3.90	5.23	1.91	*<0.260*	0.0284	12.7
PWVN01@4.0'	6/10/2024	4.0 Ft	**0.895**	24.7	*<0.200*	*<0.30*	2.70	4.99	1.50	*<0.260*	*<0.0200*	10.6
BKG01@6.0"	6/11/2024	0.5 Ft	**1.72**	35.4	*<0.200*	*<0.30*	3.38	7.02	1.95	*<0.260*	0.0213	16.0
BKG01@4.0'	6/11/2024	4.0 Ft	**0.779**	41.3	*<0.200*	*<0.30*	2.85	2.50	2.13	*<0.260*	*<0.0200*	12.7
BKG01@5.0'	6/11/2024	5.0 Ft	**0.824**	31.0	*<0.200*	*<0.30*	3.82	2.62	2.04	*<0.260*	*<0.0200*	12.0
BKG02@6.0"	6/11/2024	0.5 Ft	**1.72**	**92.5**	**0.491**	*<0.30*	9.73	**17.0**	3.56	**0.392**	0.105	40.2
BKG02@4.0'	6/11/2024	4.0 Ft	**0.618**	62.5	*<0.200*	*<0.30*	4.32	3.00	2.19	**0.697**	0.0215	10.1
BKG02@5.0'	6/11/2024	5.0 Ft	0.205	19.5	*<0.179*	*<0.30*	1.54	1.63	0.678	*<0.232*	*<0.0179*	4.45
BKG03@6.0"	6/11/2024	0.5 Ft	**1.59**	48.4	*<0.200*	*<0.30*	5.20	6.18	3.24	*<0.260*	0.0248	20.0
BKG03@4.0'	6/11/2024	4.0 Ft	**2.90**	73.4	*<0.200*	*<0.30*	4.56	6.17	4.13	*<0.260*	0.0331	16.5
BKG03@5.0'	6/11/2024	5.0 Ft	**1.70**	77.5	*<0.200*	*<0.30*	3.60	4.15	3.29	*<0.260*	0.0262	14.5
BKG04@6.0"	6/11/2024	0.5 Ft	**3.16**	62.2	**0.385**	*<0.30*	5.80	12.5	3.12	*<0.234*	0.175	25.0
BKG04@4.0'	6/11/2024	4.0 Ft	**0.816**	66.6	*<0.200*	*<0.30*	3.00	3.84	2.66	**1.61**	0.0206	13.9
BKG04@5.0'	6/11/2024	5.0 Ft	0.274	10.6	*<0.200*	*<0.30*	0.966	1.13	0.682	**0.671**	*<0.0200*	3.93
BKG05@6.0"	6/11/2024	0.5 Ft	**3.69**	**102**	0.335	*<0.30*	5.53	7.47	4.76	*<0.260*	0.0697	24.6
BKG05@4.0'	6/11/2024	4.0 Ft	**0.462**	12.6	*<0.181*	*<0.30*	0.686	1.34	0.801	*<0.236*	*<0.0181*	4.11
BKG05@5.0'	6/11/2024	5.0 Ft	**1.32**	64.3	*<0.200*	*<0.30*	3.68	5.66	2.10	**1.35**	0.0367	14.8
Maximum Root Zone Background Concentration (0 - 3 ft)			**3.69**	**102**	**0.491**	*<0.30*	9.73	**17.0**	4.76	**0.392**	0.175	40.2
125% Average Root Zone Background Concentration (0 - 3 ft)			**2.97**	**85.1**	**0.402**	*<0.30*	7.41	12.5	4.16	**0.351**	0.0990	31.5
Maximum Background Concentration			**3.69**	**102**	**0.491**	*<0.30*	9.73	**17.0**	4.76	**1.61**	0.175	40.2
125% Average Background Concentration			**1.81**	66.7	0.297	*<0.30*	4.89	6.85	3.11	**0.603**	0.0524	19.4

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)
* 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.

Markus T5N-R65W-S28 L01 (Facility) Topo Map



Markus T5N-R65W-S28 L01

Remediation #: 30204
Facility ID: 319279
Lat/Long: 40.364890, -104.670027
SESW Sec. 28, T5N, R65W
Fremont Proj. C024-129

Proposed SI Sample Locations

Photo Log

Description:

#1A - Markus T5N-R65W-S28 L01 - Above Ground Storage Tank (Oil) - AST01@6.0" - No Impacts Noted - PID: 2.7ppm

Photo Log

Description:

#2A - Markus T5N-R65W-S28 L01 - Separator - SEP01@5.0' - Staining and Odor Present - PID: 596.7ppm

Photo Log

Description:

#3A - Markus T5N-R65W-S28 L01 - Floor of Produced Water Vault Excavation - PWVB01@5.0' - Odor Present - No Staining - PID: 93.5ppm

Photo Log

Description:

#3B - Markus T5N-R65W-S28 L01 - North Sidewall of PWV Excavation - PWVN01@4.0' - Light Odor Present - No Staining - PID: 20.4ppm

Photo Log

Description:

#3C - Markus T5N-R65W-S28 L01 - South Sidewall of PWV Excavation - PWVS01@4.0' - No Impacts Noted - PID: 0.7ppm

Photo Log

Description:

#3D - Markus T5N-R65W-S28 L01 - East Sidewall of PWV Excavation - PWVE01@4.0' - No Impacts Noted - PID: 0.7ppm

Photo Log

Description:

#3E - Markus T5N-R65W-S28 L01 - West Sidewall of PWV Excavation - PWVW01@4.0' - No Impacts Noted - PID: 1.2ppm

Photo Log

Description:

#4A - Markus T5N-R65W-S28 L01 - Dumpline - DL01@5.0' - No Impacts Noted - PID: 1.3ppm

Photo Log

Description:

#5A - Markus T5N-R65W-S28 L01 - Third Party Meter Shed - MET01@6.0" - No Impacts Noted - PID: 0.0ppm

Photo Log

Description:

#6A - Markus T5N-R65W-S28 L01 - Combustion Unit - ECD01@6.0" - No Impacts Noted - PID: 0.0ppm

Photo Log

Description:

#7A - Markus T5N-R65W-S28 L01 - 1st Local Background Sample Bore - BKG01 - Samples Collected at 0.5ft, 4.0ft and 5.0ft

Photo Log

Description:

#7B - Markus T5N-R65W-S28 L01 - 2nd Local Background Sample Bore - BKG02 - Samples Collected at 0.5ft, 4.0ft and 5.0ft

Photo Log

Description:

#7C - Markus T5N-R65W-S28 L01 - 3rd Local Background Sample Bore - BKG03 - Samples Collected at 0.5ft, 4.0ft and 5.0ft

Photo Log

Description:

#7D - Markus T5N-R65W-S28 L01 - 4th Local Background Sample Bore - BKG04 - Samples Collected at 0.5ft, 4.0ft and 5.0ft

Photo Log

FREMONT ENVIRONMENTAL

Description:

#7E - Markus T5N-R65W-S28 L01 - 5th Local Background Sample Bore - BKG05 - Samples Collected at 0.5ft, 4.0ft and 5.0ft

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

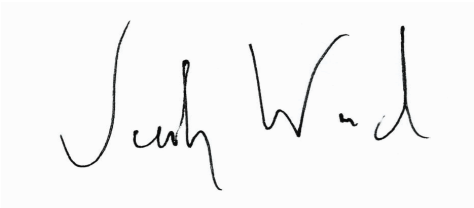
July 10, 2024

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Markus T5N-R65W-S28 L01
Work Order #2406139

Enclosed are the results of analyses for samples received by Summit Scientific on 06/11/24 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacob Wood For Paul Shrewsbury
President

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@6.0"	2406139-01	Soil	06/10/24 00:00	06/11/24 15:35
SEP01@5.0'	2406139-02	Soil	06/10/24 00:00	06/11/24 15:35
PWVB01@5.0'	2406139-03	Soil	06/10/24 00:00	06/11/24 15:35
PWVN01@4.0'	2406139-04	Soil	06/10/24 00:00	06/11/24 15:35

Case Narrative

Rerun analyses were performed by client request on 7/9/2024.
The rerun results included in this report are denoted with "RE#."

This is a revision of the report originally sent on 6/19/2024 at 14:42 MT.

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
2406139	

	Send Data To:	Send Invoice To:
Client: Fremont Env	Project Manager: Paul Henehan	Company: Noble
Address:	E-Mail: Paulh@fremontenv.com	Project Name/Location:
City/State/Zip:	JeffG@fremontenv.com EthemboFremontenv.com	AFE#:
Phone:	Project Name: Markus T5N-R65W-S28 L01	PO/Billing Codes: UWRUE-A3314-ABN
Sampler Name: JG	Project Number:	Contact:

				Preservative					Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (8015)	DRO, ORO, GRO	PAHs (8015)	EC, pH, SAR, Boron	Metals (8015)	HOLD!!!		
1	AST01@6.0"	6/10/24		2			X			X			X	X	X	X	X	X			
2	SEP01@5.0'	↓		↓			↓			↓			↓	↓	↓	↓	↓	↓			
3	PWVB01@5.0'																				
4	PWVN01@4.0'												X	X	X	X	X	X			
5	PWVS01@4.0'																		X		
6	PWVE01@4.0'																		X		
7	PWVW01@4.0'	↓		↓			↓			↓									X		
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
[signature]	6/11/24 1535	[signature]	6/11/24 15:35
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

TAT Business Days	
Same Day	
1 Day	
2 Days	
3 Days	
Standard	X

Field DO	
Field EC	
Field ORP	
Field pH	
Field Temp.	
Field Turb.	

Notes:

Temperature Upon Receipt: 25.1 | Corrected Temperature: | IR gun #: 2 | HNO3 lot #:

S2

Sample Receipt Checklist

S2 Work Order# 2406139

Client: Fremont Client Project ID: Mathis TSN-R65V-528 L01

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

[X] [ ] [ ] [ ] [ ]

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

Temp (°C) 25.1 Thermometer # 2

	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.		X		
If custody seals are present, are they intact? (1)			X	
Are samples due within 48 hours present?		X		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe^{2+}), Hexavalent Chromium (Cr^{6+}, Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		X		
Is a chain-of-custody (COC) form present and filled out Completely? (1)		X		No Sample times
Is the COC properly relinquished by the client w/ date and time recorded? (1)	X			
Were all samples received intact? (1)	X			
Was adequate sample volume provided? (1)	X			
Does the COC agree with the number and type of sample bottles received? (1)	X			
Do the sample IDs on the bottle labels match the COC? (1)	X			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**			X	
Are samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.			Y	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			Y	
If dissolved metals are requested, were samples field filtered?			Y	
Additional Comments (if any):				

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

Custodian Printed Name

6/11/24 15:35
Date/Time

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

AST01@6.0"

2406139-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHF0329	06/12/24	06/13/24	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: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0410	*103 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0387	*96.8 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	*95.2 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

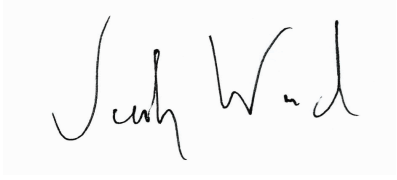
Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHF0342	06/12/24	06/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.56	*52.5 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

AST01@6.0"

2406139-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHF0321	06/12/24	06/12/24	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: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0235	*70.6 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0230	*69.1 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0336	06/12/24	06/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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 - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

AST01@6.0"

2406139-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.03**	0.200	mg/kg dry	1	BHF0381	06/13/24	06/15/24	EPA 6020B	
Barium	**55.6**	0.400	"	"	"	"	"	"	
Cadmium	**0.228**	0.200	"	"	"	"	"	"	
Copper	**7.25**	0.400	"	"	"	"	"	"	
Lead	**13.4**	0.200	"	"	"	"	"	"	
Nickel	**2.33**	0.400	"	"	"	"	"	"	
Silver	**0.134**	0.0200	"	"	"	"	"	"	
Zinc	**30.9**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0326	06/12/24	06/12/24	EPA 7196A	

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

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**107**	0.0500	mg/L dry	1	BHF0472	06/17/24	06/18/24	EPA 6020B	
Magnesium	**1.64**	0.0500	"	"	"	"	"	"	
Sodium	**21.6**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.568**	0.00100	units	1	BHF0558	06/19/24	06/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

AST01@6.0"

2406139-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	**91.1**		%	1	BHF0322	06/12/24	06/14/24	Calculation

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

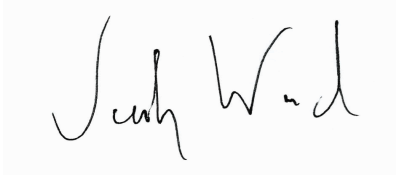
Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.192**	0.0100	mmhos/cm	1	BHF0473	06/17/24	06/18/24	EPA 120.1	

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

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.71**		pH Units	1	BHF0474	06/17/24	06/18/24	EPA 9045D	



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

SEP01@5.0'

2406139-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHF0329	06/12/24	06/13/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	R-03
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	**0.037**	0.0038	"	"	"	"	"	"	

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0370	*92.4 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0381	*95.2 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.154	*384 %*	*50-150*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C28-C36 (ORO)	ND	50	mg/kg	1	BHF0342	06/12/24	06/12/24	EPA 8015M	

Date Sampled: **06/10/24 00:00**

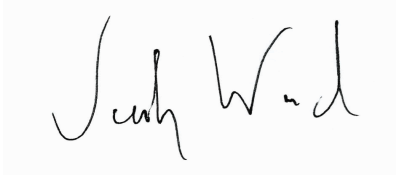
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.1	*80.6 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BHF0321	06/12/24	06/12/24	EPA 8270D SIM	

Summit Scientific



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

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

SEP01@5.0'

2406139-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Benzo (a) anthracene	ND	0.00500	mg/kg	1	BHF0321	06/12/24	06/12/24	EPA 8270D SIM
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	**0.127**	0.00500	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"
1-Methylnaphthalene	**0.0628**	0.00500	"	"	"	"	"	"

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00702	*21.1 %*	*40-150*		"	"	"	"	*S-02*
Surrogate: Fluoranthene-d10	0.0224	*67.2 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0336	06/12/24	06/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.54**	0.200	mg/kg dry	1	BHF0381	06/13/24	06/15/24	EPA 6020B	
Barium	**87.7**	0.400	"	"	"	"	"	"	
Cadmium	**0.219**	0.200	"	"	"	"	"	"	
Copper	**5.03**	0.400	"	"	"	"	"	"	
Lead	**6.07**	0.200	"	"	"	"	"	"	
Nickel	**4.34**	0.400	"	"	"	"	"	"	
Silver	**0.0364**	0.0200	"	"	"	"	"	"	

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 - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

SEP01@5.0'

2406139-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Zinc	**22.6**	0.400	mg/kg dry	1	BHF0381	06/13/24	06/15/24	EPA 6020B	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0326	06/12/24	06/12/24	EPA 7196A	

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

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**22.2**	0.0500	mg/L dry	1	BHF0472	06/17/24	06/18/24	EPA 6020B	
Magnesium	**6.31**	0.0500	"	"	"	"	"	"	
Sodium	**19.3**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.931**	0.00100	units	1	BHF0558	06/19/24	06/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**83.4**		%	1	BHF0322	06/12/24	06/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

SEP01@5.0'

2406139-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

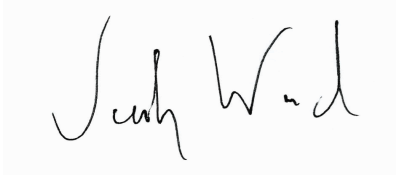
Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.266**	0.0100	mmhos/cm	1	BHF0473	06/17/24	06/18/24	EPA 120.1	

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

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.54**		pH Units	1	BHF0474	06/17/24	06/18/24	EPA 9045D	



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

SEP01@5.0'

2406139-02RE1 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B — **I-04, O-04, O-05**

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	**42**	0.50	mg/kg	1	BHG0077	07/02/24	07/02/24	EPA 8260B	

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0335	*83.8 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0761	*190 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0636	*159 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015 — **O-05**

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**100**	50	mg/kg	1	BHG0078	07/02/24	07/03/24	EPA 8015M	I-04, O-04

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.68	*77.4 %*	*30-150*		"	"	"	"	*I-04, O-04*

PAH by EPA Method 8270D SIM — **I-04, O-04, O-05**

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHF0937	06/28/24	06/28/24	EPA 8270D SIM	
2-Methylnaphthalene	**0.147**	0.00500	"	"	"	"	"	"	

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific

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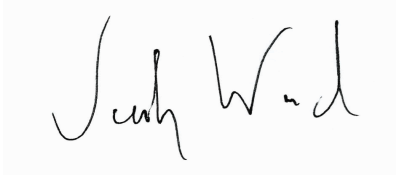
SEP01@5.0'

2406139-02RE1 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM								**I-04, O-04, O-05**
Surrogate: 2-Methylnaphthalene-d10	-0.00182	*%*	*40-150*	*BHF0937*	*06/28/24*	*06/28/24*	*EPA 8270D SIM*	*S-02*
Surrogate: Fluoranthene-d10	0.0196	*58.9 %*	*40-150*	*"*	*"*	*"*	*"*	



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PWVB01@5.0'

2406139-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHF0329	06/12/24	06/13/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.13**	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**0.010**	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**0.21**	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**27**	0.50	"	"	"	"	"	"	

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0371	*92.8 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0390	*97.5 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	*106 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

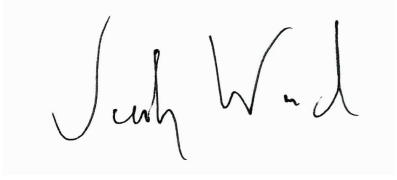
Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**72**	50	mg/kg	1	BHF0342	06/12/24	06/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.94	*71.5 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PWVB01@5.0'

2406139-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHF0321	06/12/24	06/12/24	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	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0209	*62.8 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	*67.3 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0336	06/12/24	06/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	**29.6**	0.400	mg/kg dry	1	BHF0381	06/13/24	06/15/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**3.90**	0.400	"	"	"	"	"	"	

Summit Scientific

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S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PWVB01@5.0'

2406139-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	**5.23**	0.200	mg/kg dry	1	BHF0381	06/13/24	06/15/24	EPA 6020B	
Nickel	**1.91**	0.400	"	"	"	"	"	"	
Silver	**0.0284**	0.0200	"	"	"	"	"	"	
Zinc	**12.7**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0326	06/12/24	06/12/24	EPA 7196A	

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

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**84.0**	0.0500	mg/L dry	1	BHF0472	06/17/24	06/18/24	EPA 6020B	
Magnesium	**2.68**	0.0500	"	"	"	"	"	"	
Sodium	**12.4**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.363**	0.00100	units	1	BHF0558	06/19/24	06/19/24	Calculation	

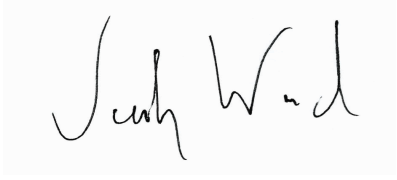
Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.2**		%	1	BHF0322	06/12/24	06/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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.

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PWVB01@5.0'

2406139-03 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.164**	0.0100	mmhos/cm	1	BHF0473	06/17/24	06/18/24	EPA 120.1	

Summit Scientific

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

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PWVB01@5.0'

2406139-03RE1 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM **I-04, O-05**

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluorene	ND	0.00500	mg/kg	1	BHF0938	06/28/24	06/28/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0140	*42.1 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0265	*79.4 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B

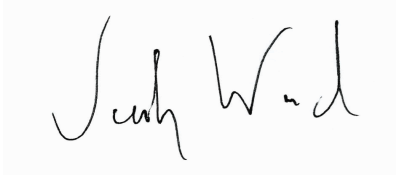
Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**0.927**	0.200	mg/kg dry	1	BHF0956	06/28/24	07/04/24	EPA 6020B	

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

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.87**		pH Units	1	BHG0035	06/17/24	07/02/24	EPA 9045D	



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PWVN01@4.0'

2406139-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHF0329	06/12/24	06/13/24	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: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0376	*94.0 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0390	*97.6 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	*95.7 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

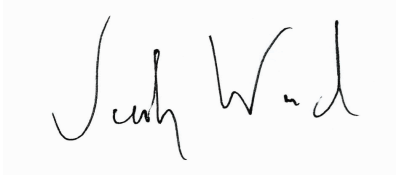
Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHF0342	06/12/24	06/17/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.17	*65.4 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PWVN01@4.0'

2406139-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHF0321	06/12/24	06/12/24	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: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0214	*64.2 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0245	*73.4 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0336	06/12/24	06/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/10/24 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 - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PWVN01@4.0'

2406139-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**0.895**	0.200	mg/kg dry	1	BHF0381	06/13/24	06/15/24	EPA 6020B	
Barium	**24.7**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**2.70**	0.400	"	"	"	"	"	"	
Lead	**4.99**	0.200	"	"	"	"	"	"	
Nickel	**1.50**	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	**10.6**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0326	06/12/24	06/12/24	EPA 7196A	

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

Date Sampled: **06/10/24 00:00**

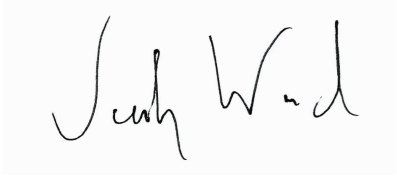
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**46.5**	0.0500	mg/L dry	1	BHF0472	06/17/24	06/18/24	EPA 6020B	
Magnesium	**3.03**	0.0500	"	"	"	"	"	"	
Sodium	**8.94**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.343**	0.00100	units	1	BHF0558	06/19/24	06/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PWVN01@4.0'

2406139-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**95.3**		%	1	BHF0322	06/12/24	06/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

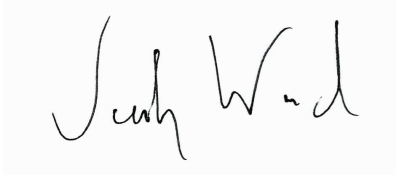
Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.124**	0.0100	mmhos/cm	1	BHF0473	06/17/24	06/18/24	EPA 120.1	

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

Date Sampled: **06/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.76**		pH Units	1	BHF0474	06/17/24	06/18/24	EPA 9045D	



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0329 - EPA 5030 Soil MS										
Blank (BHF0329-BLK1)				Prepared & Analyzed: 06/12/24						
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	*0.0396*		*"*	*0.0400*		*99.0*	*50-150*			
Surrogate: Toluene-d8	*0.0387*		*"*	*0.0400*		*96.7*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0372*		*"*	*0.0400*		*92.9*	*50-150*			
LCS (BHF0329-BS1)				Prepared & Analyzed: 06/12/24						
Benzene	0.112	0.0020	mg/kg	0.100		112	70-130			
Toluene	0.123	0.0050	"	0.100		123	70-130			
Ethylbenzene	0.124	0.0050	"	0.100		124	70-130			
m,p-Xylene	0.242	0.010	"	0.200		121	70-130			
o-Xylene	0.123	0.0050	"	0.100		123	70-130			
1,2,4-Trimethylbenzene	0.120	0.0050	"	0.100		120	70-130			
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
Naphthalene	0.111	0.0038	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0378*		*"*	*0.0400*		*94.6*	*50-150*			
Surrogate: Toluene-d8	*0.0387*		*"*	*0.0400*		*96.8*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0386*		*"*	*0.0400*		*96.6*	*50-150*			
Matrix Spike (BHF0329-MS1)		**Source: 2406115-01**		Prepared & Analyzed: 06/12/24						
Benzene	0.106	0.0020	mg/kg	0.100	ND	106	70-130			
Toluene	0.116	0.0050	"	0.100	ND	116	70-130			
Ethylbenzene	0.118	0.0050	"	0.100	ND	118	70-130			
m,p-Xylene	0.228	0.010	"	0.200	ND	114	70-130			
o-Xylene	0.119	0.0050	"	0.100	ND	119	70-130			
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130			
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130			
Naphthalene	0.114	0.0038	"	0.100	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0395*		*"*	*0.0400*		*98.7*	*50-150*			
Surrogate: Toluene-d8	*0.0384*		*"*	*0.0400*		*95.9*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0383*		*"*	*0.0400*		*95.8*	*50-150*			

Summit Scientific

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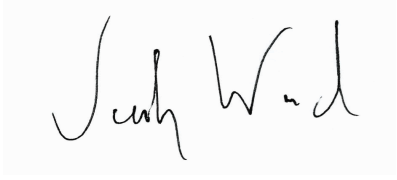
Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0329 - EPA 5030 Soil MS										
Matrix Spike Dup (BHF0329-MSD1)	**Source: 2406115-01**			Prepared & Analyzed: 06/12/24						
Benzene	0.114	0.0020	mg/kg	0.100	ND	114	70-130	7.13	30	
Toluene	0.125	0.0050	"	0.100	ND	125	70-130	7.12	30	
Ethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130	6.18	30	
m,p-Xylene	0.237	0.010	"	0.200	ND	119	70-130	4.14	30	
o-Xylene	0.125	0.0050	"	0.100	ND	125	70-130	4.93	30	
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.100	ND	115	70-130	2.21	30	
1,3,5-Trimethylbenzene	0.121	0.0050	"	0.100	ND	121	70-130	4.63	30	
Naphthalene	0.117	0.0038	"	0.100	ND	117	70-130	2.24	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0392*		*"*	*0.0400*		*98.0*	*50-150*			
Surrogate: Toluene-d8	*0.0394*		*"*	*0.0400*		*98.6*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0387*		*"*	*0.0400*		*96.8*	*50-150*			
Batch BHG0077 - EPA 5030 Soil MS										
Blank (BHG0077-BLK1)				Prepared & Analyzed: 07/02/24						
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	*0.0360*		*"*	*0.0400*		*90.0*	*50-150*			
Surrogate: Toluene-d8	*0.0396*		*"*	*0.0400*		*98.9*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0406*		*"*	*0.0400*		*102*	*50-150*			



Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHG0077 - EPA 5030 Soil MS										
LCS (BHG0077-BS1)				Prepared & Analyzed: 07/02/24						
Benzene	0.0877	0.0020	mg/kg	0.100		87.7	70-130			
Toluene	0.0993	0.0050	"	0.100		99.3	70-130			
Ethylbenzene	0.0959	0.0050	"	0.100		95.9	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.5	70-130			
o-Xylene	0.0921	0.0050	"	0.100		92.1	70-130			
1,2,4-Trimethylbenzene	0.0884	0.0050	"	0.100		88.4	70-130			
1,3,5-Trimethylbenzene	0.0892	0.0050	"	0.100		89.2	70-130			
Naphthalene	0.0852	0.0038	"	0.100		85.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0366*		"	*0.0400*		*91.6*	*50-150*			
Surrogate: Toluene-d8	*0.0423*		"	*0.0400*		*106*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0378*		"	*0.0400*		*94.5*	*50-150*			
Matrix Spike (BHG0077-MS1)	**Source: 2406462-01**			Prepared & Analyzed: 07/02/24						
Benzene	0.0960	0.0020	mg/kg	0.100	ND	96.0	70-130			
Toluene	0.106	0.0050	"	0.100	ND	106	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.212	0.010	"	0.200	ND	106	70-130			
o-Xylene	0.0998	0.0050	"	0.100	ND	99.8	70-130			
1,2,4-Trimethylbenzene	0.0973	0.0050	"	0.100	ND	97.3	70-130			
1,3,5-Trimethylbenzene	0.0982	0.0050	"	0.100	ND	98.2	70-130			
Naphthalene	0.0958	0.0038	"	0.100	ND	95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0405*		"	*0.0400*		*101*	*50-150*			
Surrogate: Toluene-d8	*0.0422*		"	*0.0400*		*106*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0405*		"	*0.0400*		*101*	*50-150*			
Matrix Spike Dup (BHG0077-MSD1)	**Source: 2406462-01**			Prepared & Analyzed: 07/02/24						
Benzene	0.0936	0.0020	mg/kg	0.100	ND	93.6	70-130	2.56	30	
Toluene	0.105	0.0050	"	0.100	ND	105	70-130	1.13	30	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	5.26	30	
m,p-Xylene	0.202	0.010	"	0.200	ND	101	70-130	4.48	30	
o-Xylene	0.0985	0.0050	"	0.100	ND	98.5	70-130	1.36	30	
1,2,4-Trimethylbenzene	0.0929	0.0050	"	0.100	ND	92.9	70-130	4.67	30	
1,3,5-Trimethylbenzene	0.0935	0.0050	"	0.100	ND	93.5	70-130	4.88	30	
Naphthalene	0.100	0.0038	"	0.100	ND	100	70-130	4.41	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0412*		"	*0.0400*		*103*	*50-150*			
Surrogate: Toluene-d8	*0.0415*		"	*0.0400*		*104*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0395*		"	*0.0400*		*98.8*	*50-150*			

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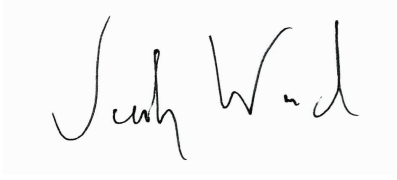

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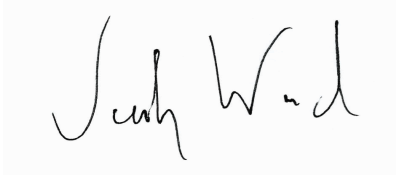
Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0342 - EPA 3550A										
Blank (BHF0342-BLK1)				Prepared & Analyzed: 06/12/24						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	*13.8*		*"*	*12.5*		*110*	*30-150*			
LCS (BHF0342-BS1)				Prepared & Analyzed: 06/12/24						
C10-C28 (DRO)	448	50	mg/kg	500		89.6	70-130			
Surrogate: o-Terphenyl	*13.3*		*"*	*12.5*		*106*	*30-150*			
Matrix Spike (BHF0342-MS1)	**Source: 2406119-04**			Prepared & Analyzed: 06/12/24						
C10-C28 (DRO)	427	50	mg/kg	500	29.8	79.4	70-130			
Surrogate: o-Terphenyl	*12.4*		*"*	*12.5*		*99.1*	*30-150*			
Matrix Spike Dup (BHF0342-MSD1)	**Source: 2406119-04**			Prepared & Analyzed: 06/12/24						
C10-C28 (DRO)	441	50	mg/kg	500	29.8	82.2	70-130	3.23	20	
Surrogate: o-Terphenyl	*12.2*		*"*	*12.5*		*98.0*	*30-150*			
Batch BHG0078 - EPA 3550A										
Blank (BHG0078-BLK1)				Prepared: 07/02/24 Analyzed: 07/03/24						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	*15.4*		*"*	*12.5*		*124*	*30-150*			
LCS (BHG0078-BS1)				Prepared: 07/02/24 Analyzed: 07/03/24						
C10-C28 (DRO)	413	50	mg/kg	500		82.6	70-130			
Surrogate: o-Terphenyl	*11.6*		*"*	*12.5*		*93.2*	*30-150*			



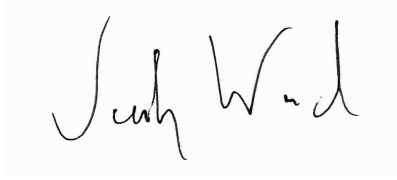
S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHG0078 - EPA 3550A										
Matrix Spike (BHG0078-MS1)	**Source: 2406462-01**			Prepared: 07/02/24 Analyzed: 07/03/24						
C10-C28 (DRO)	396	50	mg/kg	500	ND	79.1	70-130			
Surrogate: o-Terphenyl	*9.62*		*"*	*12.5*		*77.0*	*30-150*			
Matrix Spike Dup (BHG0078-MSD1)	**Source: 2406462-01**			Prepared: 07/02/24 Analyzed: 07/03/24						
C10-C28 (DRO)	441	50	mg/kg	500	ND	88.2	70-130	10.8	20	
Surrogate: o-Terphenyl	*9.92*		*"*	*12.5*		*79.3*	*30-150*			



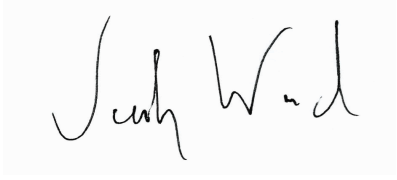
Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0321 - EPA 5030 Soil MS										
Blank (BHF0321-BLK1)				Prepared & Analyzed: 06/12/24						
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	"							
Surrogate: 2-Methylnaphthalene-d10	*0.0279*		*"*	*0.0333*		*83.6*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0294*		*"*	*0.0333*		*88.1*	*40-150*			
LCS (BHF0321-BS1)				Prepared & Analyzed: 06/12/24						
Acenaphthene	0.0230	0.00500	mg/kg	0.0333		69.1	31-137			
Anthracene	0.0232	0.00500	"	0.0333		69.6	30-120			
Benzo (a) anthracene	0.0246	0.00500	"	0.0333		73.8	30-120			
Benzo (a) pyrene	0.0208	0.00500	"	0.0333		62.5	30-120			
Benzo (b) fluoranthene	0.0217	0.00500	"	0.0333		65.1	30-120			
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333		68.0	30-120			
Chrysene	0.0240	0.00500	"	0.0333		71.9	30-120			
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333		55.2	30-120			
Fluoranthene	0.0234	0.00500	"	0.0333		70.3	30-120			
Fluorene	0.0268	0.00500	"	0.0333		80.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0132	0.00500	"	0.0333		39.5	30-120			
Pyrene	0.0272	0.00500	"	0.0333		81.8	35-142			
1-Methylnaphthalene	0.0265	0.00500	"	0.0333		79.6	35-142			
2-Methylnaphthalene	0.0275	0.00500	"	0.0333		82.5	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0269*		*"*	*0.0333*		*80.8*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0250*		*"*	*0.0333*		*75.1*	*40-150*			

Summit Scientific



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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0321 - EPA 5030 Soil MS										
Matrix Spike (BHF0321-MS1)	**Source: 2406139-01**			Prepared & Analyzed: 06/12/24						
Acenaphthene	0.0291	0.00500	mg/kg	0.0333	ND	87.2	31-137			
Anthracene	0.0280	0.00500	"	0.0333	ND	84.0	30-120			
Benzo (a) anthracene	0.0326	0.00500	"	0.0333	ND	97.9	30-120			
Benzo (a) pyrene	0.0280	0.00500	"	0.0333	ND	84.1	30-120			
Benzo (b) fluoranthene	0.0264	0.00500	"	0.0333	ND	79.2	30-120			
Benzo (k) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.3	30-120			
Chrysene	0.0318	0.00500	"	0.0333	ND	95.4	30-120			
Dibenz (a,h) anthracene	0.0260	0.00500	"	0.0333	ND	78.0	30-120			
Fluoranthene	0.0296	0.00500	"	0.0333	ND	88.9	30-120			
Fluorene	0.0284	0.00500	"	0.0333	ND	85.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0323	0.00500	"	0.0333	ND	97.0	30-120			
Pyrene	0.0379	0.00500	"	0.0333	ND	114	35-142			
1-Methylnaphthalene	0.0292	0.00500	"	0.0333	ND	87.5	15-130			
2-Methylnaphthalene	0.0273	0.00500	"	0.0333	ND	82.0	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0302*		*"*	*0.0333*		*90.5*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0288*		*"*	*0.0333*		*86.4*	*40-150*			
Matrix Spike Dup (BHF0321-MSD1)	**Source: 2406139-01**			Prepared & Analyzed: 06/12/24						
Acenaphthene	0.0232	0.00500	mg/kg	0.0333	ND	69.5	31-137	22.7	30	
Anthracene	0.0240	0.00500	"	0.0333	ND	72.1	30-120	15.2	30	
Benzo (a) anthracene	0.0254	0.00500	"	0.0333	ND	76.3	30-120	24.8	30	
Benzo (a) pyrene	0.0215	0.00500	"	0.0333	ND	64.5	30-120	26.3	30	
Benzo (b) fluoranthene	0.0213	0.00500	"	0.0333	ND	63.9	30-120	21.4	30	
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	20.0	30	
Chrysene	0.0239	0.00500	"	0.0333	ND	71.6	30-120	28.6	30	
Dibenz (a,h) anthracene	0.0232	0.00500	"	0.0333	ND	69.6	30-120	11.4	30	
Fluoranthene	0.0244	0.00500	"	0.0333	ND	73.2	30-120	19.4	30	
Fluorene	0.0241	0.00500	"	0.0333	ND	72.4	30-120	16.4	30	
Indeno (1,2,3-cd) pyrene	0.0276	0.00500	"	0.0333	ND	82.8	30-120	15.9	30	
Pyrene	0.0281	0.00500	"	0.0333	ND	84.3	35-142	29.6	30	
1-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.4	15-130	24.5	50	
2-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.9	15-130	16.0	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0224*		*"*	*0.0333*		*67.1*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0257*		*"*	*0.0333*		*77.0*	*40-150*			

Summit Scientific

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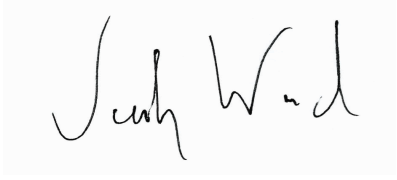
Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

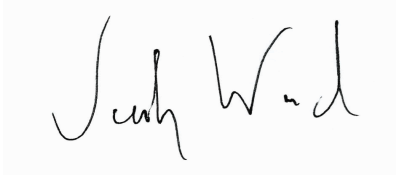
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0937 - EPA 5030 Soil MS										
Blank (BHF0937-BLK1)				Prepared & Analyzed: 06/28/24						
Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
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	"							
Surrogate: 2-Methylnaphthalene-d10	*0.0273*		*"*	*0.0333*		*81.8*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0232*		*"*	*0.0333*		*69.5*	*40-150*			
LCS (BHF0937-BS1)				Prepared & Analyzed: 06/28/24						
Acenaphthene	0.0224	0.00500	mg/kg	0.0333		67.1	31-137			
Anthracene	0.0215	0.00500	"	0.0333		64.6	30-120			
Benzo (a) anthracene	0.0262	0.00500	"	0.0333		78.7	30-120			
Benzo (a) pyrene	0.0232	0.00500	"	0.0333		69.5	30-120			
Benzo (b) fluoranthene	0.0236	0.00500	"	0.0333		70.9	30-120			
Benzo (k) fluoranthene	0.0242	0.00500	"	0.0333		72.7	30-120			
Chrysene	0.0253	0.00500	"	0.0333		75.9	30-120			
Dibenz (a,h) anthracene	0.0199	0.00500	"	0.0333		59.7	30-120			
Fluoranthene	0.0224	0.00500	"	0.0333		67.1	30-120			
Fluorene	0.0320	0.00500	"	0.0333		96.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0121	0.00500	"	0.0333		36.2	30-120			
Pyrene	0.0264	0.00500	"	0.0333		79.1	35-142			
1-Methylnaphthalene	0.0219	0.00500	"	0.0333		65.8	35-142			
2-Methylnaphthalene	0.0230	0.00500	"	0.0333		69.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0210*		*"*	*0.0333*		*62.9*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0232*		*"*	*0.0333*		*69.6*	*40-150*			



PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

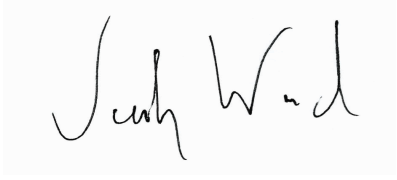
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0937 - EPA 5030 Soil MS										
Matrix Spike (BHF0937-MS1)	**Source: 2406445-01**			Prepared & Analyzed: 06/28/24						
Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.6	31-137			
Anthracene	0.0220	0.00500	"	0.0333	ND	66.0	30-120			
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	ND	75.5	30-120			
Benzo (a) pyrene	0.0222	0.00500	"	0.0333	ND	66.7	30-120			
Benzo (b) fluoranthene	0.0211	0.00500	"	0.0333	ND	63.2	30-120			
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.7	30-120			
Chrysene	0.0240	0.00500	"	0.0333	ND	72.1	30-120			
Dibenz (a,h) anthracene	0.0244	0.00500	"	0.0333	ND	73.3	30-120			
Fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	30-120			
Fluorene	0.0259	0.00500	"	0.0333	ND	77.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0167	0.00500	"	0.0333	ND	50.2	30-120			
Pyrene	0.0262	0.00500	"	0.0333	ND	78.5	35-142			
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.8	15-130			
2-Methylnaphthalene	0.0251	0.00500	"	0.0333	ND	75.2	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0222*		*"*	*0.0333*		*66.6*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0218*		*"*	*0.0333*		*65.4*	*40-150*			
Matrix Spike Dup (BHF0937-MSD1)	**Source: 2406445-01**			Prepared & Analyzed: 06/28/24						
Acenaphthene	0.0189	0.00500	mg/kg	0.0333	ND	56.8	31-137	11.3	30	
Anthracene	0.0201	0.00500	"	0.0333	ND	60.2	30-120	9.20	30	
Benzo (a) anthracene	0.0264	0.00500	"	0.0333	ND	79.3	30-120	4.85	30	
Benzo (a) pyrene	0.0236	0.00500	"	0.0333	ND	70.9	30-120	6.12	30	
Benzo (b) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.6	30-120	0.598	30	
Benzo (k) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	11.3	30	
Chrysene	0.0261	0.00500	"	0.0333	ND	78.3	30-120	8.31	30	
Dibenz (a,h) anthracene	0.0225	0.00500	"	0.0333	ND	67.6	30-120	8.12	30	
Fluoranthene	0.0197	0.00500	"	0.0333	ND	59.2	30-120	8.07	30	
Fluorene	0.0245	0.00500	"	0.0333	ND	73.6	30-120	5.26	30	
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	1.29	30	
Pyrene	0.0331	0.00500	"	0.0333	ND	99.3	35-142	23.4	30	
1-Methylnaphthalene	0.0186	0.00500	"	0.0333	ND	55.7	15-130	22.5	50	
2-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.9	15-130	40.4	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0184*		*"*	*0.0333*		*55.3*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0182*		*"*	*0.0333*		*54.7*	*40-150*			



PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0938 - EPA 5030 Soil MS										
Blank (BHF0938-BLK1)				Prepared & Analyzed: 06/28/24						
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	"							
Surrogate: 2-Methylnaphthalene-d10	*0.0135*		*"*	*0.0333*		*40.4*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0144*		*"*	*0.0333*		*43.2*	*40-150*			
LCS (BHF0938-BS1)				Prepared & Analyzed: 06/28/24						
Acenaphthene	0.0276	0.00500	mg/kg	0.0333		82.7	31-137			
Anthracene	0.0243	0.00500	"	0.0333		73.0	30-120			
Benzo (a) anthracene	0.0218	0.00500	"	0.0333		65.5	30-120			
Benzo (a) pyrene	0.0141	0.00500	"	0.0333		42.2	30-120			
Benzo (b) fluoranthene	0.0137	0.00500	"	0.0333		41.0	30-120			
Benzo (k) fluoranthene	0.0139	0.00500	"	0.0333		41.8	30-120			
Chrysene	0.0197	0.00500	"	0.0333		59.2	30-120			
Dibenz (a,h) anthracene	0.0175	0.00500	"	0.0333		52.5	30-120			
Fluoranthene	0.0262	0.00500	"	0.0333		78.5	30-120			
Fluorene	0.0209	0.00500	"	0.0333		62.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333		57.4	30-120			
Pyrene	0.0179	0.00500	"	0.0333		53.8	35-142			
1-Methylnaphthalene	0.0186	0.00500	"	0.0333		55.8	35-142			
2-Methylnaphthalene	0.0190	0.00500	"	0.0333		57.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0183*		*"*	*0.0333*		*54.8*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0276*		*"*	*0.0333*		*82.8*	*40-150*			



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0938 - EPA 5030 Soil MS										
Matrix Spike (BHF0938-MS1)	**Source: 2406444-02**			Prepared & Analyzed: 06/28/24						
Acenaphthene	0.0145	0.00500	mg/kg	0.0333	ND	43.4	31-137			
Anthracene	0.0182	0.00500	"	0.0333	ND	54.6	30-120			
Benzo (a) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120			
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.2	30-120			
Benzo (b) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.1	30-120			
Benzo (k) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120			
Chrysene	0.0146	0.00500	"	0.0333	ND	43.9	30-120			
Dibenz (a,h) anthracene	0.0142	0.00500	"	0.0333	ND	42.5	30-120			
Fluoranthene	0.0151	0.00500	"	0.0333	ND	45.2	30-120			
Fluorene	0.0161	0.00500	"	0.0333	ND	48.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120			
Pyrene	0.0178	0.00500	"	0.0333	ND	53.4	35-142			
1-Methylnaphthalene	0.0138	0.00500	"	0.0333	ND	41.4	15-130			
2-Methylnaphthalene	0.0137	0.00500	"	0.0333	ND	41.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0138*		*"*	*0.0333*		*41.5*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0165*		*"*	*0.0333*		*49.4*	*40-150*			
Matrix Spike Dup (BHF0938-MSD1)	**Source: 2406444-02**			Prepared & Analyzed: 06/28/24						
Acenaphthene	0.0141	0.00500	mg/kg	0.0333	ND	42.2	31-137	2.84	30	
Anthracene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	5.85	30	
Benzo (a) anthracene	0.0212	0.00500	"	0.0333	ND	63.6	30-120	24.1	30	
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.4	30-120	15.5	30	
Benzo (b) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	12.7	30	
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.7	30-120	5.86	30	
Chrysene	0.0161	0.00500	"	0.0333	ND	48.3	30-120	9.47	30	
Dibenz (a,h) anthracene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	26.7	30	
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	26.2	30	
Fluorene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	10.4	30	
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	9.17	30	
Pyrene	0.0154	0.00500	"	0.0333	ND	46.1	35-142	14.7	30	
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.4	15-130	19.6	50	
2-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.9	15-130	19.5	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0167*		*"*	*0.0333*		*50.2*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0205*		*"*	*0.0333*		*61.5*	*40-150*			

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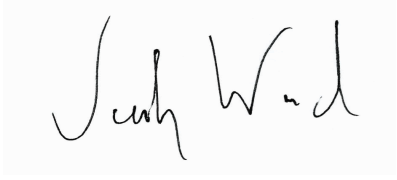

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0336 - EPA 3050B										
Blank (BHF0336-BLK1)				Prepared: 06/12/24 Analyzed: 06/14/24						
Boron	ND	2.00	mg/L							
LCS (BHF0336-BS1)				Prepared: 06/12/24 Analyzed: 06/14/24						
Boron	5.35	2.00	mg/L	5.00		107	80-120			
Duplicate (BHF0336-DUP1)	**Source: 2404413-17**			Prepared: 06/12/24 Analyzed: 06/14/24						
Boron	0.386	2.00	mg/L		0.415			7.32	20	
Matrix Spike (BHF0336-MS1)	**Source: 2404413-17**			Prepared: 06/12/24 Analyzed: 06/14/24						
Boron	5.52	2.00	mg/L	5.01	0.415	102	75-125			
Matrix Spike Dup (BHF0336-MSD1)	**Source: 2404413-17**			Prepared: 06/12/24 Analyzed: 06/14/24						
Boron	5.72	2.00	mg/L	5.01	0.415	106	75-125	3.71	25	

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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.

S2

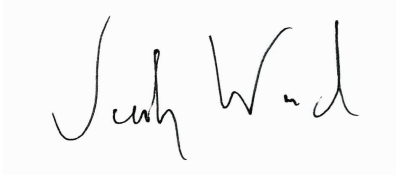
Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0381 - EPA 3050B										
Blank (BHF0381-BLK1)				Prepared: 06/13/24 Analyzed: 06/15/24						
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 (BHF0381-BS1)				Prepared: 06/13/24 Analyzed: 06/15/24						
Arsenic	34.9	0.200	mg/kg wet	40.0		87.3	80-120			
Barium	37.2	0.400	"	40.0		93.0	80-120			
Cadmium	1.84	0.200	"	2.00		92.2	80-120			
Copper	39.5	0.400	"	40.0		98.7	80-120			
Lead	19.3	0.200	"	20.0		96.6	80-120			
Nickel	39.3	0.400	"	40.0		98.2	80-120			
Silver	1.82	0.0200	"	2.00		91.1	80-120			
Zinc	39.7	0.400	"	40.0		99.2	80-120			
Selenium	3.85	0.260	"	4.00		96.2	80-120			
Duplicate (BHF0381-DUP1)	**Source: 2406117-01**			Prepared: 06/13/24 Analyzed: 06/15/24						
Arsenic	2.48	0.200	mg/kg dry		2.61			5.06	20	
Barium	881	0.400	"		780			12.1	20	
Cadmium	0.526	0.200	"		0.474			10.4	20	
Copper	6.48	0.400	"		5.93			8.84	20	
Lead	5.12	0.200	"		5.05			1.36	20	
Nickel	5.89	0.400	"		5.27			11.2	20	
Silver	0.0425	0.0200	"		0.0429			0.948	20	
Zinc	20.9	0.400	"		19.6			6.63	20	
Selenium	0.742	0.260	"		0.687			7.70	20	

Summit Scientific



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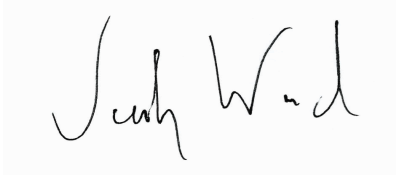
Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0381 - EPA 3050B										
Matrix Spike (BHF0381-MS1)	**Source: 2406117-01**			Prepared: 06/13/24 Analyzed: 06/15/24						
Arsenic	38.9	0.200	mg/kg dry	39.6	2.61	91.8	75-125			
Barium	888	0.400	"	39.6	780	272	75-125			QM-07
Cadmium	2.40	0.200	"	1.98	0.474	97.3	75-125			
Copper	33.6	0.400	"	39.6	5.93	70.0	75-125			QM-07
Lead	23.0	0.200	"	19.8	5.05	90.6	75-125			
Nickel	33.3	0.400	"	39.6	5.27	70.8	75-125			QM-07
Silver	1.87	0.0200	"	1.98	0.0429	92.2	75-125			
Zinc	49.0	0.400	"	39.6	19.6	74.4	75-125			QM-07
Selenium	4.21	0.260	"	3.96	0.687	89.2	75-125			
Matrix Spike Dup (BHF0381-MSD1)	**Source: 2406117-01**			Prepared: 06/13/24 Analyzed: 06/15/24						
Arsenic	40.4	0.200	mg/kg dry	40.5	2.61	93.4	75-125	3.76	25	
Barium	770	0.400	"	40.5	780	NR	75-125	14.2	25	QM-07
Cadmium	2.45	0.200	"	2.02	0.474	97.6	75-125	2.07	25	
Copper	34.5	0.400	"	40.5	5.93	70.5	75-125	2.44	25	QM-07
Lead	23.6	0.200	"	20.2	5.05	91.7	75-125	2.78	25	
Nickel	34.1	0.400	"	40.5	5.27	71.3	75-125	2.54	25	QM-07
Silver	1.92	0.0200	"	2.02	0.0429	92.9	75-125	3.04	25	
Zinc	49.5	0.400	"	40.5	19.6	74.0	75-125	1.03	25	QM-07
Selenium	4.44	0.260	"	4.05	0.687	92.8	75-125	5.30	25	
Batch BHF0956 - EPA 3050B										
Blank (BHF0956-BLK1)				Prepared: 06/28/24 Analyzed: 07/04/24						
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	"							

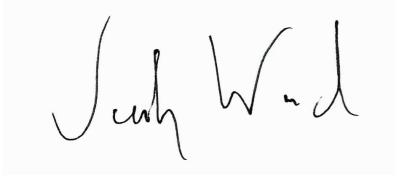


Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0956 - EPA 3050B										
LCS (BHF0956-BS1)				Prepared: 06/28/24 Analyzed: 07/04/24						
Arsenic	41.7	0.200	mg/kg wet	40.0		104	80-120			
Barium	40.8	0.400	"	40.0		102	80-120			
Cadmium	1.97	0.200	"	2.00		98.3	80-120			
Copper	41.9	0.400	"	40.0		105	80-120			
Lead	19.6	0.200	"	20.0		98.0	80-120			
Nickel	41.4	0.400	"	40.0		103	80-120			
Silver	1.98	0.0200	"	2.00		98.8	80-120			
Zinc	40.9	0.400	"	40.0		102	80-120			
Selenium	4.51	0.260	"	4.00		113	80-120			
Duplicate (BHF0956-DUP1)		**Source: 2404170-01RE1**		Prepared: 06/28/24 Analyzed: 07/04/24						
Arsenic	5.75	0.200	mg/kg wet		7.21			22.5	20	QR-04
Barium	68.6	0.400	"		51.0			29.4	20	QR-04
Cadmium	0.289	0.200	"		0.269			7.18	20	
Copper	12.4	0.400	"		14.5			16.1	20	
Lead	10.5	0.200	"		11.7			10.8	20	
Nickel	9.31	0.400	"		11.0			16.8	20	
Silver	0.0377	0.0200	"		0.0350			7.50	20	
Zinc	44.4	0.400	"		51.9			15.6	20	
Selenium	0.224	0.260	"		0.209			6.88	20	
Matrix Spike (BHF0956-MS1)		**Source: 2404170-01RE1**		Prepared: 06/28/24 Analyzed: 07/04/24						
Arsenic	45.0	0.200	mg/kg wet	39.4	7.21	96.0	75-125			
Barium	536	0.400	"	39.4	51.0	NR	75-125			QM-07
Cadmium	2.20	0.200	"	1.97	0.269	98.1	75-125			
Copper	50.9	0.400	"	39.4	14.5	92.2	75-125			
Lead	29.2	0.200	"	19.7	11.7	88.7	75-125			
Nickel	47.7	0.400	"	39.4	11.0	93.1	75-125			
Silver	1.94	0.0200	"	1.97	0.0350	96.7	75-125			
Zinc	85.0	0.400	"	39.4	51.9	83.9	75-125			
Selenium	4.22	0.260	"	3.94	0.209	102	75-125			



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0956 - EPA 3050B										
Matrix Spike Dup (BHF0956-MSD1)	**Source: 2404170-01RE1**			Prepared: 06/28/24 Analyzed: 07/04/24						
Arsenic	42.8	0.200	mg/kg wet	38.2	7.21	93.3	75-125	4.95	25	
Barium	341	0.400	"	38.2	51.0	760	75-125	44.5	25	QM-07
Cadmium	2.17	0.200	"	1.91	0.269	99.4	75-125	1.52	25	
Copper	50.8	0.400	"	38.2	14.5	95.0	75-125	0.0681	25	
Lead	28.9	0.200	"	19.1	11.7	89.7	75-125	1.16	25	
Nickel	48.2	0.400	"	38.2	11.0	97.3	75-125	1.04	25	
Silver	1.91	0.0200	"	1.91	0.0350	98.1	75-125	1.69	25	
Zinc	87.1	0.400	"	38.2	51.9	92.2	75-125	2.51	25	
Selenium	4.26	0.260	"	3.82	0.209	106	75-125	0.939	25	

Summit Scientific

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

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0326 - 3060A_Mod										
Blank (BHF0326-BLK1)				Prepared & Analyzed: 06/12/24						
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHF0326-BS1)				Prepared & Analyzed: 06/12/24						
Chromium, Hexavalent	25.2	0.30	mg/kg wet	25.0		101	80-120			
Duplicate (BHF0326-DUP1)	**Source: 2406127-01**			Prepared & Analyzed: 06/12/24						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHF0326-MS1)	**Source: 2406127-01**			Prepared & Analyzed: 06/12/24						
Chromium, Hexavalent	29.3	0.30	mg/kg dry	30.4	ND	96.2	75-125			
Matrix Spike Dup (BHF0326-MSD1)	**Source: 2406127-01**			Prepared & Analyzed: 06/12/24						
Chromium, Hexavalent	27.3	0.30	mg/kg dry	29.2	ND	93.4	75-125	6.99	20	

Summit Scientific

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

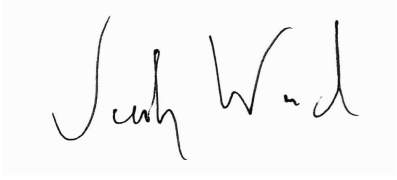
S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0472 - General Preparation										
Blank (BHF0472-BLK1)				Prepared: 06/17/24 Analyzed: 06/18/24						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BHF0472-BS1)				Prepared: 06/17/24 Analyzed: 06/18/24						
Calcium	5.27	0.0500	mg/L wet	5.00		105	70-130			
Magnesium	5.07	0.0500	"	5.00		101	70-130			
Sodium	4.87	0.0500	"	5.00		97.3	70-130			

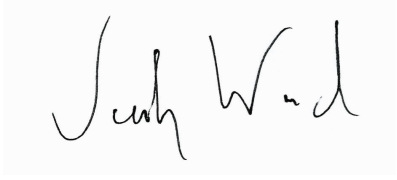


Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0322 - General Preparation										
Duplicate (BHF0322-DUP1)		**Source: 2406117-01**		Prepared: 06/12/24 Analyzed: 06/14/24						
% Solids	95.3		%		95.7			0.481	20	



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0473 - General Preparation										
Blank (BHF0473-BLK1)				Prepared: 06/17/24 Analyzed: 06/18/24						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BHF0473-BS1)				Prepared: 06/17/24 Analyzed: 06/18/24						
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	0.150		99.9	95-105			
Duplicate (BHF0473-DUP1)	**Source: 2406139-01**			Prepared: 06/17/24 Analyzed: 06/18/24						
Specific Conductance (EC)	0.184	0.0100	mmhos/cm		0.192			3.93	20	

Summit Scientific

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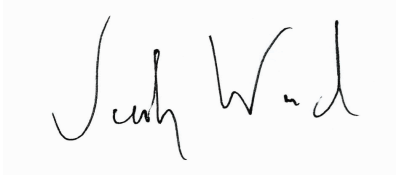
Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus T5N-R65W-S28 L01 Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 07/10/24 11:32

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0474 - General Preparation										
LCS (BHF0474-BS1)				Prepared: 06/17/24 Analyzed: 06/18/24						
pH	9.20		pH Units	9.18		100	95-105			
Duplicate (BHF0474-DUP1)		**Source: 2406139-01**		Prepared: 06/17/24 Analyzed: 06/18/24						
pH	7.62		pH Units		7.71			1.17	20	
Batch BHG0035 - General Preparation										
LCS (BHG0035-BS1)				Prepared: 07/01/24 Analyzed: 07/02/24						
pH	9.24		pH Units	9.18		101	95-105			
Duplicate (BHG0035-DUP1)		**Source: 2404199-10RE1**		Prepared: 07/01/24 Analyzed: 07/02/24						
pH	8.70		pH Units		8.71			0.115	20	



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Project Number: Project Manager:	Noble - Markus T5N-R65W-S28 L01 UWRWE-A3314-ABN Paul Henehan	**Reported:** 07/10/24 11:32

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
R-03	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
O-05	This sample was extracted outside of the EPA recommended holding time.
O-04	This sample was analyzed above the recommended temperature.
I-04	Sample was analyzed out of recomended holding time per clients request.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 21, 2024

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Markus (Backgrounds)
Work Order #2406142

Enclosed are the results of analyses for samples received by Summit Scientific on 06/11/24 15:35. 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 - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@6.0"	2406142-01	Soil	06/11/24 00:00	06/11/24 15:35
BKG01@4.0'	2406142-02	Soil	06/11/24 00:00	06/11/24 15:35
BKG01@5.0'	2406142-03	Soil	06/11/24 00:00	06/11/24 15:35
BKG02@6.0"	2406142-04	Soil	06/11/24 00:00	06/11/24 15:35
BKG02@4.0'	2406142-05	Soil	06/11/24 00:00	06/11/24 15:35
BKG02@5.0'	2406142-06	Soil	06/11/24 00:00	06/11/24 15:35
BKG03@6.0"	2406142-07	Soil	06/11/24 00:00	06/11/24 15:35
BKG03@4.0'	2406142-08	Soil	06/11/24 00:00	06/11/24 15:35
BKG03@5.0'	2406142-09	Soil	06/11/24 00:00	06/11/24 15:35
BKG04@6.0"	2406142-10	Soil	06/11/24 00:00	06/11/24 15:35
BKG04@4.0'	2406142-11	Soil	06/11/24 00:00	06/11/24 15:35
BKG04@5.0'	2406142-12	Soil	06/11/24 00:00	06/11/24 15:35
BKG05@6.0"	2406142-13	Soil	06/11/24 00:00	06/11/24 15:35
BKG05@4.0'	2406142-14	Soil	06/11/24 00:00	06/11/24 15:35
BKG05@5.0'	2406142-15	Soil	06/11/24 00:00	06/11/24 15:35

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
2406142	

	Send Data To:	Send Invoice To:
Client: Fremont Env	Project Manager:	Company: Noble
Address:	E-Mail: Paulh@fremontenv.com	Project Name/Location:
City/State/Zip:	jeffg@fremontenv.com Ethenb@fremontenv.com	AFE#:
Phone:	Project Name: Markus (Backgrounds)	PO/Billing Codes: UWRWF-A3314-ABN
Sampler Name: JG	Project Number:	Contact:

				Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC, pH, SAR, Boron	Metals (9I5)						
1	BK601@6.0"	6/11/24		1			X			X			X	X						
2	BK601@4.0'	↓		↓			↓			↓			↓	↓						
3	BK601@5.0'																			
4	BK602@6.0"																			
5	BK602@4.0'																			
6	BK602@5.0'																			
7	BK603@6.0"																			
8	BK603@4.0'																			
9	BK603@5.0'																			
10	BK604@6.0"																			
11	BK604@4.0'																			
12	BK604@5.0'																			
13	BK605@6.0"																			
14	BK605@4.0'																			
15	BK605@5.0'	↓		↓			↓			↓			↓	↓						

Relinquished by:	Date/Time:	Received by:	Date/Time:
[signature]	6/11/24 1535	[signature]	6/11/24 15:35
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

TAT Business Days	
Same Day	
1 Day	
2 Days	
3 Days	
Standard	X

Field DO	
Field EC	
Field ORP	
Field pH	
Field Temp.	
Field Turb.	

Notes:

Temperature Upon Receipt: 24.4 | Corrected Temperature: | IR gun #: 2 | HNO3 lot #:

S2

Sample Receipt Checklist

S2 Work Order# 2406142

Client: Fremont Client Project ID: Markus (Background S)

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

[X] [ ] [ ] [ ] [ ]

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

Temp (°C) 24.4 Thermometer # 2

	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.		X		
If custody seals are present, are they intact? (1)			X	
Are samples due within 48 hours present?		X		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe^{2+}), Hexavalent Chromium (Cr^{6+}, Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			X	
Is a chain-of-custody (COC) form present and filled out Completely? (1)		X		No Sample time S
Is the COC properly relinquished by the client w/ date and time recorded? (1)	X			
Were all samples received intact? (1)	X			
Was adequate sample volume provided? (1)	Y			
Does the COC agree with the number and type of sample bottles received? (1)	Y			
Do the sample IDs on the bottle labels match the COC?(1)	Y			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**			Y	
Are samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.			Y	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			Y	
If dissolved metals are requested, were samples field filtered?			Y	
Additional Comments (if any):				

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

W.d

Custodian Printed Name

6/11/24 15:35

Date/Time

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG01@6.0"

2406142-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.72**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**35.4**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**3.38**	0.400	"	"	"	"	"	"	
Lead	**7.02**	0.200	"	"	"	"	"	"	
Nickel	**1.95**	0.400	"	"	"	"	"	"	
Silver	**0.0213**	0.0200	"	"	"	"	"	"	
Zinc	**16.0**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**40.8**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**16.2**	0.0500	"	"	"	"	"	"	
Sodium	**288**	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG01@6.0"

2406142-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**9.65**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.8**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**2.14**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**9.11**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG01@4.0'

2406142-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**0.779**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**41.3**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**2.85**	0.400	"	"	"	"	"	"	
Lead	**2.50**	0.200	"	"	"	"	"	"	
Nickel	**2.13**	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	**12.7**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**40.5**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**16.3**	0.0500	"	"	"	"	"	"	
Sodium	**59.8**	0.0500	"	"	"	"	"	"	

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 - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG01@4.0'

2406142-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**2.01**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**87.6**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.573**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.12**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG01@5.0'

2406142-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**0.824**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**31.0**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**3.82**	0.400	"	"	"	"	"	"	
Lead	**2.62**	0.200	"	"	"	"	"	"	
Nickel	**2.04**	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	**12.0**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**40.4**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**14.0**	0.0500	"	"	"	"	"	"	
Sodium	**49.7**	0.0500	"	"	"	"	"	"	

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 - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG01@5.0'

2406142-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**1.72**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**83.8**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.364**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.26**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG02@6.0"

2406142-04 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	**2.62**	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.72**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**92.5**	0.400	"	"	"	"	"	"	
Cadmium	**0.491**	0.200	"	"	"	"	"	"	
Copper	**9.73**	0.400	"	"	"	"	"	"	
Lead	**17.0**	0.200	"	"	"	"	"	"	
Nickel	**3.56**	0.400	"	"	"	"	"	"	
Silver	**0.105**	0.0200	"	"	"	"	"	"	
Zinc	**40.2**	0.400	"	"	"	"	"	"	
Selenium	**0.392**	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**159**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**35.2**	0.0500	"	"	"	"	"	"	
Sodium	**53.3**	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG02@6.0"

2406142-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.996**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**86.1**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.656**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.41**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG02@4.0'

2406142-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**0.618**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**62.5**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**4.32**	0.400	"	"	"	"	"	"	
Lead	**3.00**	0.200	"	"	"	"	"	"	
Nickel	**2.19**	0.400	"	"	"	"	"	"	
Silver	**0.0215**	0.0200	"	"	"	"	"	"	
Zinc	**10.1**	0.400	"	"	"	"	"	"	
Selenium	**0.697**	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**50.1**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**20.4**	0.0500	"	"	"	"	"	"	
Sodium	**185**	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG02@4.0'

2406142-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**5.57**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**85.6**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.01**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.33**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG02@5.0'

2406142-06 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**0.205**	0.179	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**19.5**	0.357	"	"	"	"	"	"	
Cadmium	ND	0.179	"	"	"	"	"	"	
Copper	**1.54**	0.357	"	"	"	"	"	"	
Lead	**1.63**	0.179	"	"	"	"	"	"	
Nickel	**0.678**	0.357	"	"	"	"	"	"	
Silver	ND	0.0179	"	"	"	"	"	"	
Zinc	**4.45**	0.357	"	"	"	"	"	"	
Selenium	ND	0.232	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**51.0**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**15.9**	0.0500	"	"	"	"	"	"	
Sodium	**39.2**	0.0500	"	"	"	"	"	"	

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG02@5.0'

2406142-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**1.23**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84.7**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.309**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.70**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG03@6.0"

2406142-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0198	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.59**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**48.4**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**5.20**	0.400	"	"	"	"	"	"	
Lead	**6.18**	0.200	"	"	"	"	"	"	
Nickel	**3.24**	0.400	"	"	"	"	"	"	
Silver	**0.0248**	0.0200	"	"	"	"	"	"	
Zinc	**20.0**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**80.7**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**44.4**	0.0500	"	"	"	"	"	"	
Sodium	**158**	0.0500	"	"	"	"	"	"	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG03@6.0"

2406142-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**3.51**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84.3**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**1.25**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.38**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG03@4.0'

2406142-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**2.90**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**73.4**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**4.56**	0.400	"	"	"	"	"	"	
Lead	**6.17**	0.200	"	"	"	"	"	"	
Nickel	**4.13**	0.400	"	"	"	"	"	"	
Silver	**0.0331**	0.0200	"	"	"	"	"	"	
Zinc	**16.5**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**54.5**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**20.9**	0.0500	"	"	"	"	"	"	
Sodium	**97.9**	0.0500	"	"	"	"	"	"	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG03@4.0'

2406142-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**2.86**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84.1**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.789**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.25**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG03@5.0'

2406142-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.70**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**77.5**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**3.60**	0.400	"	"	"	"	"	"	
Lead	**4.15**	0.200	"	"	"	"	"	"	
Nickel	**3.29**	0.400	"	"	"	"	"	"	
Silver	**0.0262**	0.0200	"	"	"	"	"	"	
Zinc	**14.5**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**30.9**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**11.1**	0.0500	"	"	"	"	"	"	
Sodium	**56.5**	0.0500	"	"	"	"	"	"	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG03@5.0'

2406142-09 (Soil)

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Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**2.22**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**86.6**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.466**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.04**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG04@6.0"

2406142-10 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**3.16**	0.180	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**62.2**	0.360	"	"	"	"	"	"	
Cadmium	**0.385**	0.180	"	"	"	"	"	"	
Copper	**5.80**	0.360	"	"	"	"	"	"	
Lead	**12.5**	0.180	"	"	"	"	"	"	
Nickel	**3.12**	0.360	"	"	"	"	"	"	
Silver	**0.175**	0.0180	"	"	"	"	"	"	
Zinc	**25.0**	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**42.5**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**22.1**	0.0500	"	"	"	"	"	"	
Sodium	**133**	0.0500	"	"	"	"	"	"	

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BKG04@6.0"

2406142-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**4.12**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91.1**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.875**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.37**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG04@4.0'

2406142-11 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**0.816**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**66.6**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**3.00**	0.400	"	"	"	"	"	"	
Lead	**3.84**	0.200	"	"	"	"	"	"	
Nickel	**2.66**	0.400	"	"	"	"	"	"	
Silver	**0.0206**	0.0200	"	"	"	"	"	"	
Zinc	**13.9**	0.400	"	"	"	"	"	"	
Selenium	**1.61**	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**198**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**77.5**	0.0500	"	"	"	"	"	"	
Sodium	**46.5**	0.0500	"	"	"	"	"	"	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG04@4.0'

2406142-11 (Soil)

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Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.709**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.8**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.289**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.92**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

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2406142-12 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**0.274**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**10.6**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**0.966**	0.400	"	"	"	"	"	"	
Lead	**1.13**	0.200	"	"	"	"	"	"	
Nickel	**0.682**	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	**3.93**	0.400	"	"	"	"	"	"	
Selenium	**0.671**	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**45.1**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**18.8**	0.0500	"	"	"	"	"	"	
Sodium	**33.1**	0.0500	"	"	"	"	"	"	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG04@5.0'

2406142-12 (Soil)

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Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**1.04**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**93.4**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.293**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.22**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG05@6.0"

2406142-13 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**3.69**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**102**	0.400	"	"	"	"	"	"	
Cadmium	**0.335**	0.200	"	"	"	"	"	"	
Copper	**5.53**	0.400	"	"	"	"	"	"	
Lead	**7.47**	0.200	"	"	"	"	"	"	
Nickel	**4.76**	0.400	"	"	"	"	"	"	
Silver	**0.0697**	0.0200	"	"	"	"	"	"	
Zinc	**24.6**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**53.2**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**24.1**	0.0500	"	"	"	"	"	"	
Sodium	**71.2**	0.0500	"	"	"	"	"	"	

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BKG05@6.0"

2406142-13 (Soil)

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Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**2.03**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**76.7**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.546**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.52**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

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2406142-14 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**0.462**	0.181	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**12.6**	0.362	"	"	"	"	"	"	
Cadmium	ND	0.181	"	"	"	"	"	"	
Copper	**0.686**	0.362	"	"	"	"	"	"	
Lead	**1.34**	0.181	"	"	"	"	"	"	
Nickel	**0.801**	0.362	"	"	"	"	"	"	
Silver	ND	0.0181	"	"	"	"	"	"	
Zinc	**4.11**	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**28.6**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**14.3**	0.0500	"	"	"	"	"	"	
Sodium	**42.0**	0.0500	"	"	"	"	"	"	

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG05@4.0'

2406142-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**1.60**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**82.8**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.343**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.38**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG05@5.0'

2406142-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0340	06/12/24	06/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.32**	0.200	mg/kg dry	1	BHF0360	06/13/24	06/18/24	EPA 6020B	
Barium	**64.3**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**3.68**	0.400	"	"	"	"	"	"	
Lead	**5.66**	0.200	"	"	"	"	"	"	
Nickel	**2.10**	0.400	"	"	"	"	"	"	
Silver	**0.0367**	0.0200	"	"	"	"	"	"	
Zinc	**14.8**	0.400	"	"	"	"	"	"	
Selenium	**1.35**	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0345	06/12/24	06/13/24	EPA 7196A	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**68.8**	0.0500	mg/L dry	1	BHF0435	06/14/24	06/19/24	EPA 6020B	
Magnesium	**24.9**	0.0500	"	"	"	"	"	"	
Sodium	**71.7**	0.0500	"	"	"	"	"	"	

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

BKG05@5.0'

2406142-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**1.88**	0.00100	units	1	BHF0611	06/20/24	06/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.6**		%	1	BHF0341	06/12/24	06/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.614**	0.0100	mmhos/cm	1	BHF0436	06/14/24	06/17/24	EPA 120.1	

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

Date Sampled: **06/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.23**		pH Units	1	BHF0437	06/14/24	06/17/24	EPA 9045D	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0340 - EPA 3050B										
Blank (BHF0340-BLK1)				Prepared: 06/12/24 Analyzed: 06/14/24						
Boron	ND	2.00	mg/L							
LCS (BHF0340-BS1)				Prepared: 06/12/24 Analyzed: 06/15/24						
Boron	4.84	2.00	mg/L	5.00		96.7	80-120			
Duplicate (BHF0340-DUP1)		**Source: 2406142-01**		Prepared: 06/12/24 Analyzed: 06/15/24						
Boron	0.877	2.00	mg/L		0.883			0.672	20	
Matrix Spike (BHF0340-MS1)		**Source: 2406142-01**		Prepared: 06/12/24 Analyzed: 06/15/24						
Boron	6.20	2.00	mg/L	5.00	0.883	106	75-125			
Matrix Spike Dup (BHF0340-MSD1)		**Source: 2406142-01**		Prepared: 06/12/24 Analyzed: 06/15/24						
Boron	6.35	2.00	mg/L	5.00	0.883	109	75-125	2.42	25	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0360 - EPA 3050B										
Blank (BHF0360-BLK1)				Prepared: 06/13/24 Analyzed: 06/18/24						
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 (BHF0360-BS1)				Prepared: 06/13/24 Analyzed: 06/18/24						
Arsenic	40.7	0.200	mg/kg wet	40.0		102	80-120			
Barium	39.9	0.400	"	40.0		99.7	80-120			
Cadmium	1.96	0.200	"	2.00		97.9	80-120			
Copper	39.9	0.400	"	40.0		99.6	80-120			
Lead	18.6	0.200	"	20.0		93.2	80-120			
Nickel	39.9	0.400	"	40.0		99.6	80-120			
Silver	1.95	0.0200	"	2.00		97.4	80-120			
Zinc	39.8	0.400	"	40.0		99.5	80-120			
Selenium	3.79	0.260	"	4.00		94.8	80-120			
Duplicate (BHF0360-DUP1)	**Source: 2406141-01**			Prepared: 06/13/24 Analyzed: 06/18/24						
Arsenic	2.10	0.200	mg/kg dry		1.42			38.2	20	
Barium	336	0.400	"		253			28.2	20	
Cadmium	0.203	0.200	"		0.203			0.117	20	
Copper	4.49	0.400	"		4.57			1.64	20	
Lead	12.0	0.200	"		8.52			34.2	20	
Nickel	3.48	0.400	"		3.37			3.15	20	
Silver	0.0527	0.0200	"		0.0475			10.3	20	
Zinc	30.2	0.400	"		21.1			35.4	20	
Selenium	1.17	0.260	"		1.24			6.38	20	

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0360 - EPA 3050B										
Matrix Spike (BHF0360-MS1)	**Source: 2406141-01**			Prepared: 06/13/24 Analyzed: 06/18/24						
Arsenic	44.0	0.200	mg/kg dry	42.3	1.42	101	75-125			
Barium	254	0.400	"	42.3	253	3.36	75-125			
Cadmium	2.27	0.200	"	2.11	0.203	97.7	75-125			
Copper	30.5	0.400	"	42.3	4.57	61.3	75-125			
Lead	32.2	0.200	"	21.1	8.52	112	75-125			
Nickel	29.6	0.400	"	42.3	3.37	62.1	75-125			
Silver	2.07	0.0200	"	2.11	0.0475	95.9	75-125			
Zinc	50.4	0.400	"	42.3	21.1	69.2	75-125			
Selenium	3.99	0.260	"	4.23	1.24	65.0	75-125			
Matrix Spike Dup (BHF0360-MSD1)	**Source: 2406141-01**			Prepared: 06/13/24 Analyzed: 06/18/24						
Arsenic	44.3	0.200	mg/kg dry	42.0	1.42	102	75-125	0.637	25	
Barium	541	0.400	"	42.0	253	688	75-125	72.2	25	
Cadmium	2.24	0.200	"	2.10	0.203	97.3	75-125	1.01	25	
Copper	31.6	0.400	"	42.0	4.57	64.5	75-125	3.75	25	
Lead	42.5	0.200	"	21.0	8.52	162	75-125	27.4	25	
Nickel	31.3	0.400	"	42.0	3.37	66.6	75-125	5.51	25	
Silver	2.07	0.0200	"	2.10	0.0475	96.4	75-125	0.200	25	
Zinc	53.2	0.400	"	42.0	21.1	76.4	75-125	5.46	25	
Selenium	4.09	0.260	"	4.20	1.24	67.9	75-125	2.57	25	
Post Spike (BHF0360-PS1)	**Source: 2406141-01**			Prepared: 06/13/24 Analyzed: 06/18/24						
Arsenic	116		ug/l	100	3.42	112	75-125			
Barium	724		"	100	607	117	75-125			
Cadmium	5.70		"	5.00	0.488	104	75-125			
Copper	67.8		"	100	11.0	56.8	75-125			
Lead	62.7		"	50.0	20.5	84.5	75-125			
Nickel	65.5		"	100	8.10	57.4	75-125			
Silver	5.27		"	5.00	0.114	103	75-125			
Zinc	109		"	100	50.7	58.3	75-125			
Selenium	11.6		"	10.0	2.98	85.8	75-125			

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0345 - 3060A_Mod										
Blank (BHF0345-BLK1)				Prepared: 06/12/24 Analyzed: 06/13/24						
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHF0345-BS1)				Prepared: 06/12/24 Analyzed: 06/13/24						
Chromium, Hexavalent	25.3	0.30	mg/kg wet	25.0		101	80-120			
Duplicate (BHF0345-DUP1)		**Source: 2406142-01**		Prepared: 06/12/24 Analyzed: 06/13/24						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHF0345-MS1)		**Source: 2406142-01**		Prepared: 06/12/24 Analyzed: 06/13/24						
Chromium, Hexavalent	27.9	0.30	mg/kg dry	28.4	ND	98.2	75-125			
Matrix Spike Dup (BHF0345-MSD1)		**Source: 2406142-01**		Prepared: 06/12/24 Analyzed: 06/13/24						
Chromium, Hexavalent	28.3	0.30	mg/kg dry	27.0	ND	105	75-125	1.67	20	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0435 - General Preparation										
Blank (BHF0435-BLK1)				Prepared: 06/14/24 Analyzed: 06/19/24						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BHF0435-BS1)				Prepared: 06/14/24 Analyzed: 06/19/24						
Calcium	5.49	0.0500	mg/L wet	5.00		110	70-130			
Magnesium	5.28	0.0500	"	5.00		106	70-130			
Sodium	5.19	0.0500	"	5.00		104	70-130			

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0341 - General Preparation										
Duplicate (BHF0341-DUP2)		**Source: 2406140-08**		Prepared & Analyzed: 06/12/24						
% Solids	95.3		%		95.7			0.481	20	

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0436 - General Preparation										
Blank (BHF0436-BLK1)				Prepared: 06/14/24 Analyzed: 06/17/24						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BHF0436-BS1)				Prepared: 06/14/24 Analyzed: 06/17/24						
Specific Conductance (EC)	0.152	0.0100	mmhos/cm	0.150		102	95-105			
Duplicate (BHF0436-DUP1)	**Source: 2406142-01**			Prepared: 06/14/24 Analyzed: 06/17/24						
Specific Conductance (EC)	2.14	0.0100	mmhos/cm		2.14			0.0466	20	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHF0437 - General Preparation										
LCS (BHF0437-BS1)				Prepared: 06/14/24 Analyzed: 06/17/24						
pH	9.21		pH Units	9.18		100	95-105			
Duplicate (BHF0437-DUP1)		**Source: 2406142-01**		Prepared: 06/14/24 Analyzed: 06/17/24						
pH	9.09		pH Units		9.11			0.220	20	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Markus (Backgrounds) Project Number: UWRWE-A3314-ABN Project Manager: Paul Henehan	**Reported:** 06/21/24 07:55

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference