

FREMONT ENVIRONMENTAL INC.

August 17, 2023

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

Subject: **Flowline Closure Data Submittal**
Trebor B12-5
API # 05-123-13776
SWNW Sec. 12, T5N, R64W
Weld County, Colorado
Fremont Project No. C023-120 Facility
447346, Remediation #28286

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Flowline Closure activities for the Noble Energy Inc. (Noble) Trebor B12-5. Impacted soil was not encountered during abandonment activities. Details of the Trebor B12-5 flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during the flowline removal activities.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Stanley Gilbert
Environmental Scientist

Attachments:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Reports

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

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
TREBOR B12-5, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-120

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
FL01 3FT	04/26/2023	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
Sep Riser 3FT	04/26/2023	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
TREBOR B12-5, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-120

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
FLO1 3FT	04/26/2023	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Sep Riser 3FT	04/26/2023	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

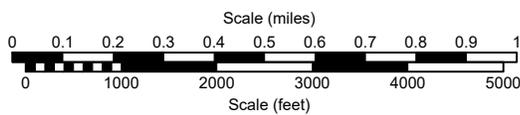
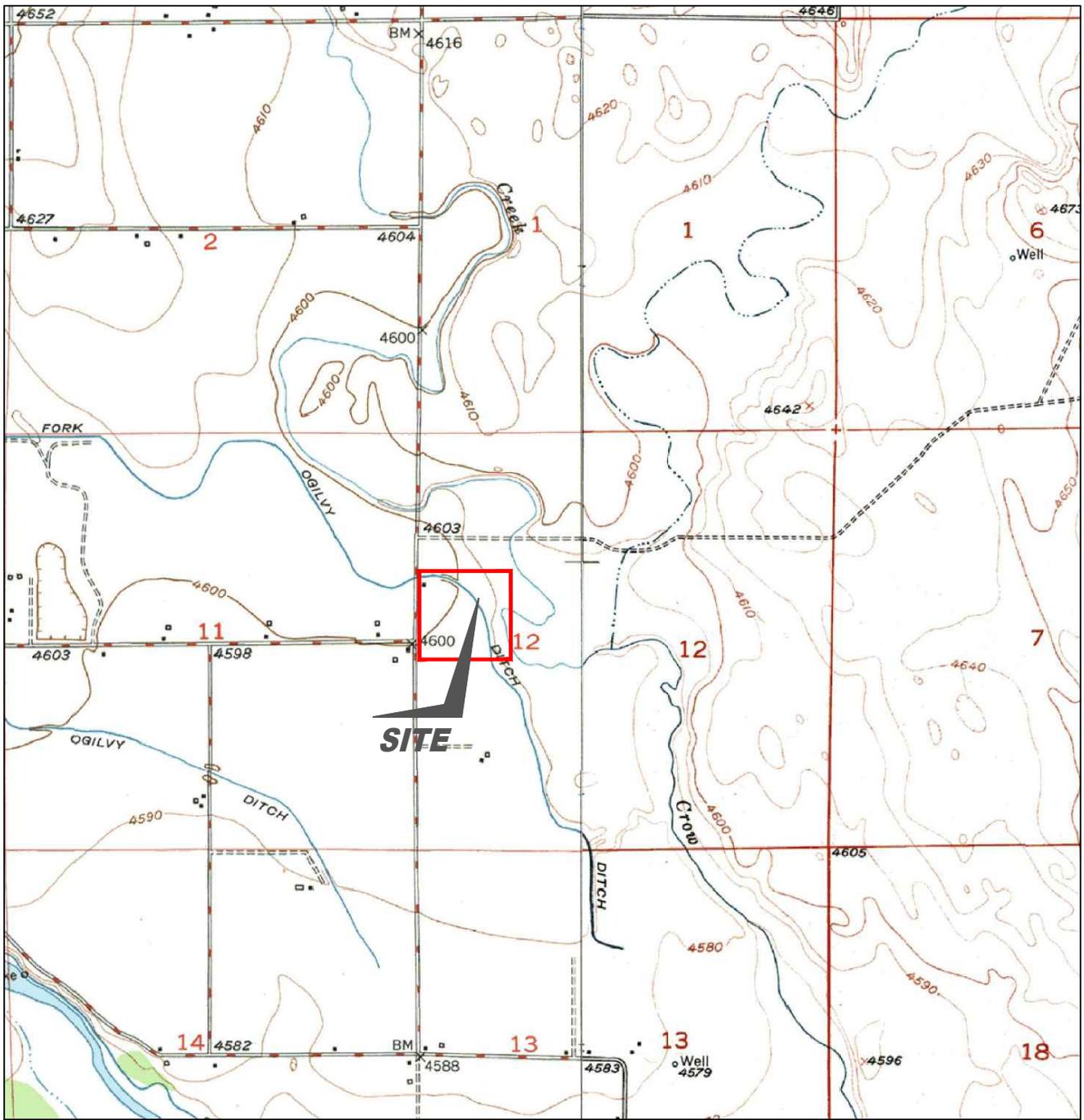
TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
TREBOR B12-5, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-120

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 3FT	04/26/2023	3	8.48	0.32	1.13	0.039
Sep Riser 3FT	04/26/2023	3	8.69	0.361	0.813	0.211

Bold faced values exceed the COGCC Table 915-1 concentrations

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

NA - Not analyzed



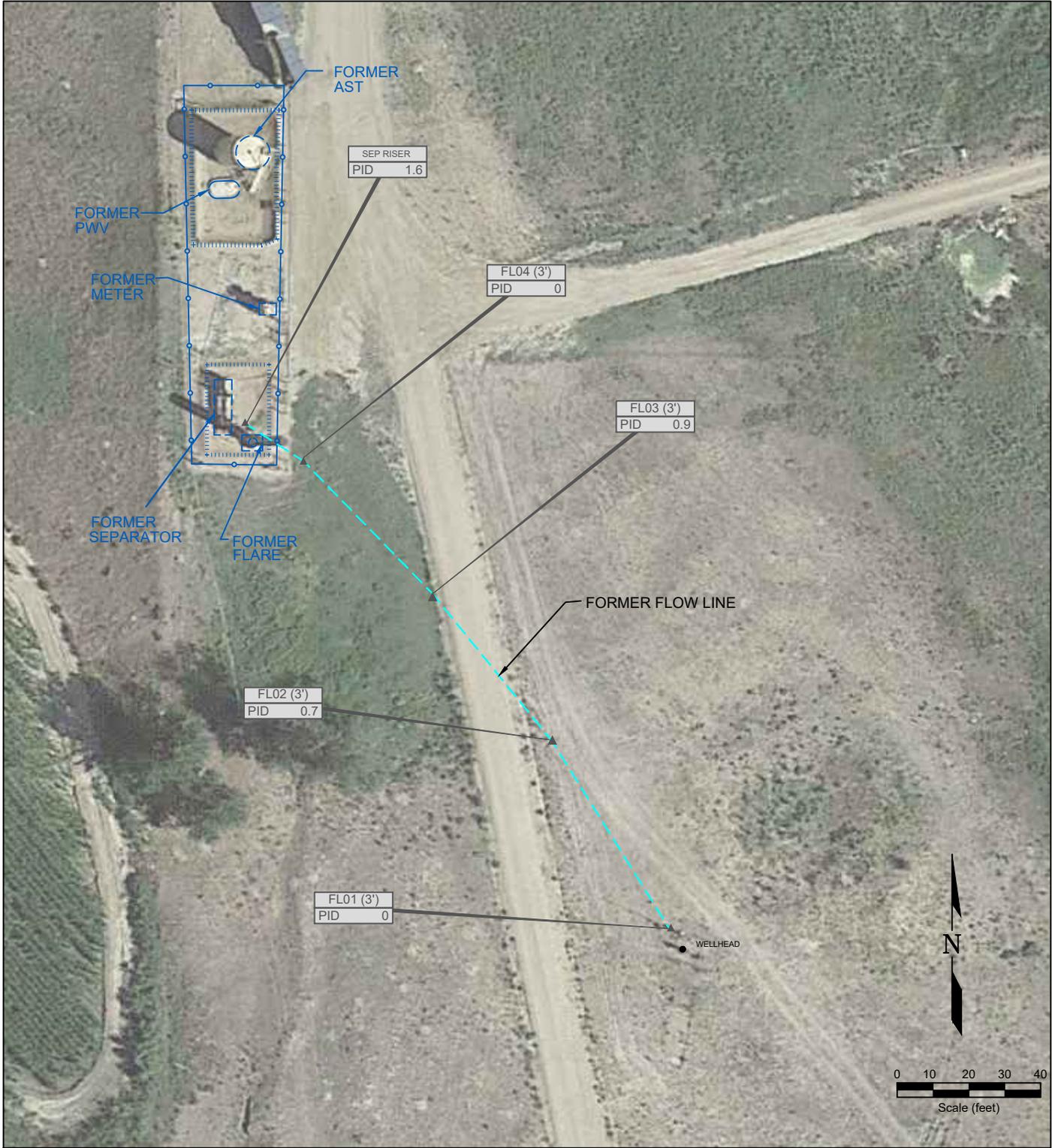
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY INC - TREBOR B12-5
 SWNW Sec. 12, T5N, R64W, 6th PM
 Weld County, Colorado
 40.416030°, -104.505360°

Project # CO23-120	API # 05-123-13776	Facility #
Date 09/19/2023	Remediation # 28286	Filename 23120T1





LEGEND

- WELLHEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- FORMER FLOW LINE
- CONTAINMENT BERM
- FENCE LINE

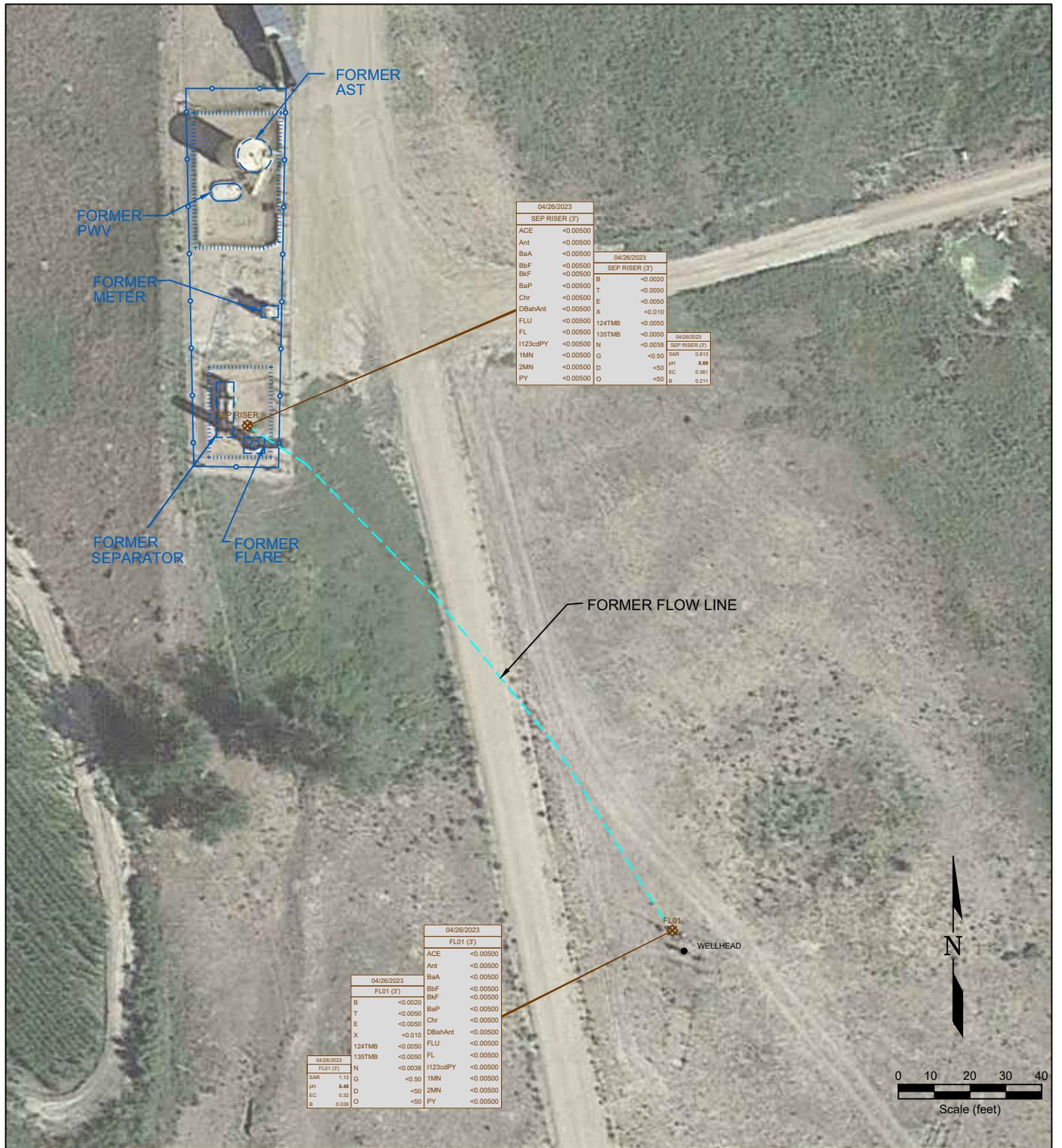
FL01 PID READING LOCATION IDENTIFICATION
 PID 0.1 PHOTO IONIZATION DETECTION (ppm)

**Figure 2
 SITE MAP**

NOBLE ENERGY INC - TREBOR B12-5
 SWNW Sec. 12, T5N, R64W, 6th PM
 Weld County, Colorado
 40.416030°, -104.505360°

Project # CO23-120	API # 05-123-13776	Facility #
Date 09/19/2023	Remediation # 28286	Filename 23120Q1





LEGEND

- WELLHEAD LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER FLOW LINE
- CONTAINMENT BERM
- FENCE LINE

4/7/2023	DATE SAMPLED	4/7/2023	DATE SAMPLED	4/7/2023	DATE SAMPLED
FL01 (4')	SAMPLE ID and DEPTH (ft)	FL01 (4')	SAMPLE ID and DEPTH (ft)	FL01 (4')	SAMPLE ID & DEPTH (ft)
ACE	<0.00500	B	<0.00200	SAR	0.990
Ant	<0.00500	T	<0.00500	pH	8.94
BaA	<0.00500	E	<0.00500	EC	0.385
BbF	<0.00500	X	<0.010	BORON	0.203
BkF	<0.00500	124TMB	<0.00500	[NA]	NOT ANALYZED
BaP	<0.00500	135TMB	<0.00500		
Chr	<0.00500	N	<0.0038		
DBahAnt	<0.00500	G	<0.50		
FLU	<0.00500	D	<50		
FL	<0.00500	O	<50		
I123cdPY	<0.00500				
1MN	<0.00500				
2MN	<0.00500				
PY	<0.00500				

Figure 3
SOIL CHEMISTRY MAP

NOBLE ENERGY INC - TREBOR B12-5
SWNW Sec. 12, T5N, R64W, 6th PM
Weld County, Colorado
40.416030°, -104.505360°

Project # CO23-120	API # 05-123-13776	Facility #
Date 09/19/2023	Remediation # 28286	Filename 23120Q1

Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 04, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Trebor B12-05
Work Order #2304596

Enclosed are the results of analyses for samples received by Summit Scientific on 04/26/23 16:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/04/23 14:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3FT	2304596-01	Soil	04/26/23 00:00	04/26/23 16:20
Sep Riser 3FT	2304596-02	Soil	04/26/23 00:00	04/26/23 16:20

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.

Summit Scientific

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

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to: Dan

Phone:

Project Name: Noble - Trebor BIZ-05

Sampler Name: EB, SG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron	Metals (915)		TDS, Chloride, Sulfate	HOLD
1	FLG1 3FT	4/26/23		2			X			X			X	X	X					
2	SEP RESER 3FT	↓		2			X			X			X	X	X					
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <i>John Mad</i>	Date/Time: 4/24/23 1620	Received by: S2	Date/Time: 4/26/23 1620	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: 12.7 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by: S2	Date/Time: 4/26/23 1620	Received by: <i>[Signature]</i>	Date/Time: 4/26/23 1620		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2304596

Client: Fremont Client Project ID: Noble-Treloar B12-05

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

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

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on 20E</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

AS

Custodian Printed Name

4/28/23

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/04/23 14:38

FL01 3FT
2304596-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGE0026	05/01/23	05/02/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0446	112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0028	05/01/23	05/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	17.1	137 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/04/23 14:38

FL01 3FT
2304596-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGE0002	05/01/23	05/02/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0197	59.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0163	48.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0390	0.0100	mg/L	1	BGE0041	05/02/23	05/03/23	EPA 6020B	

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

Date Sampled: **04/26/23 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/04/23 14:38

FL01 3FT
2304596-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.7	0.0536	mg/L dry	1	BGE0081	05/02/23	05/03/23	EPA 6020B	
Magnesium	8.98	0.0536	"	"	"	"	"	"	
Sodium	32.1	0.0536	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.13	0.00100	units	1	BGE0145	05/04/23	05/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.4		%	1	BGE0070	05/02/23	05/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.320	0.0100	mmhos/cm	1	BGE0106	05/03/23	05/03/23	EPA 120.1	

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

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.48		pH Units	1	BGE0107	05/03/23	05/03/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/04/23 14:38

Sep Riser 3FT
2304596-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGE0026	05/01/23	05/02/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0506	126 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0350	87.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0495	124 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0028	05/01/23	05/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	17.7	142 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/04/23 14:38

Sep Riser 3FT
2304596-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGE0002	05/01/23	05/02/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0209	62.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0178	53.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.211	0.0100	mg/L	1	BGE0041	05/02/23	05/03/23	EPA 6020B	

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

Date Sampled: **04/26/23 00:00**

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

Project: Noble - Trebor B12-05

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/04/23 14:38

Sep Riser 3FT
2304596-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	727	0.0545	mg/L dry	1	BGE0081	05/02/23	05/03/23	EPA 6020B	
Magnesium	69.6	0.0545	"	"	"	"	"	"	
Sodium	85.7	0.0545	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.813	0.00100	units	1	BGE0145	05/04/23	05/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BGE0070	05/02/23	05/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.361	0.0100	mmhos/cm	1	BGE0106	05/03/23	05/03/23	EPA 120.1	

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

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.69		pH Units	1	BGE0107	05/03/23	05/03/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/04/23 14:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGE0026 - EPA 5030 Soil MS

Blank (BGE0026-BLK1)

Prepared & Analyzed: 05/01/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0466</i>		<i>"</i>	<i>0.0400</i>		<i>117</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0346</i>		<i>"</i>	<i>0.0400</i>		<i>86.5</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.4</i>	<i>50-150</i>			

LCS (BGE0026-BS1)

Prepared & Analyzed: 05/01/23

Benzene	0.122	0.0020	mg/kg	0.150		81.3	70-130			
Toluene	0.131	0.0050	"	0.150		87.1	70-130			
Ethylbenzene	0.162	0.0050	"	0.150		108	70-130			
m,p-Xylene	0.327	0.010	"	0.300		109	70-130			
o-Xylene	0.165	0.0050	"	0.150		110	70-130			
1,2,4-Trimethylbenzene	0.178	0.0050	"	0.150		119	70-130			
1,3,5-Trimethylbenzene	0.178	0.0050	"	0.150		119	70-130			
Naphthalene	0.194	0.0038	"	0.150		129	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0460</i>		<i>"</i>	<i>0.0400</i>		<i>115</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0349</i>		<i>"</i>	<i>0.0400</i>		<i>87.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0365</i>		<i>"</i>	<i>0.0400</i>		<i>91.4</i>	<i>50-150</i>			

Matrix Spike (BGE0026-MS1)

Source: 2304558-01

Prepared: 05/01/23 Analyzed: 05/02/23

Benzene	0.119	0.0020	mg/kg	0.150	ND	79.3	70-130			
Toluene	0.121	0.0050	"	0.150	ND	81.0	70-130			
Ethylbenzene	0.171	0.0050	"	0.150	ND	114	70-130			
m,p-Xylene	0.350	0.010	"	0.300	ND	117	70-130			
o-Xylene	0.177	0.0050	"	0.150	ND	118	70-130			
1,2,4-Trimethylbenzene	0.145	0.0050	"	0.150	ND	97.0	70-130			
1,3,5-Trimethylbenzene	0.148	0.0050	"	0.150	ND	98.4	70-130			
Naphthalene	0.148	0.0038	"	0.150	ND	98.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0462</i>		<i>"</i>	<i>0.0400</i>		<i>116</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0218</i>		<i>"</i>	<i>0.0400</i>		<i>54.5</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0427</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/04/23 14:38

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

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

Batch BGE0026 - EPA 5030 Soil MS

Matrix Spike Dup (BGE0026-MSD1)	Source: 2304558-01			Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.118	0.0020	mg/kg	0.150	ND	78.8	70-130	0.683	30	
Toluene	0.126	0.0050	"	0.150	ND	83.9	70-130	3.61	30	
Ethylbenzene	0.151	0.0050	"	0.150	ND	101	70-130	12.4	30	
m,p-Xylene	0.301	0.010	"	0.300	ND	100	70-130	15.1	30	
o-Xylene	0.153	0.0050	"	0.150	ND	102	70-130	14.6	30	
1,2,4-Trimethylbenzene	0.172	0.0050	"	0.150	ND	115	70-130	16.8	30	
1,3,5-Trimethylbenzene	0.185	0.0050	"	0.150	ND	123	70-130	22.4	30	
Naphthalene	0.131	0.0038	"	0.150	ND	87.6	70-130	11.8	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0471</i>		<i>"</i>	<i>0.0400</i>		<i>118</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0352</i>		<i>"</i>	<i>0.0400</i>		<i>88.0</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0374</i>		<i>"</i>	<i>0.0400</i>		<i>93.5</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/04/23 14:38

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGE0028 - EPA 3550A

Blank (BGE0028-BLK1)

Prepared & Analyzed: 05/01/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.9		"	12.5		119		30-150			

LCS (BGE0028-BS1)

Prepared & Analyzed: 05/01/23

C10-C28 (DRO)	548	50	mg/kg	500		110		70-130			
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5		117		30-150			

Matrix Spike (BGE0028-MS1)

Source: 2304558-01

Prepared & Analyzed: 05/01/23

C10-C28 (DRO)	590	50	mg/kg	500	27.3	112		70-130			
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5		118		30-150			

Matrix Spike Dup (BGE0028-MSD1)

Source: 2304558-01

Prepared & Analyzed: 05/01/23

C10-C28 (DRO)	549	50	mg/kg	500	27.3	104		70-130	7.20	20	
Surrogate: <i>o</i> -Terphenyl	13.8		"	12.5		110		30-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/04/23 14:38

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGE0002 - EPA 5030 Soil MS

Blank (BGE0002-BLK1)

Prepared & Analyzed: 05/01/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0298		"	0.0333		89.3	40-150			
Surrogate: Fluoranthene-d10	0.0246		"	0.0333		73.7	40-150			

LCS (BGE0002-BS1)

Prepared & Analyzed: 05/01/23

Acenaphthene	0.0290	0.00500	mg/kg	0.0333		87.1	31-137			
Anthracene	0.0286	0.00500	"	0.0333		85.9	30-120			
Benzo (a) anthracene	0.0277	0.00500	"	0.0333		83.1	30-120			
Benzo (a) pyrene	0.0276	0.00500	"	0.0333		82.7	30-120			
Benzo (b) fluoranthene	0.0293	0.00500	"	0.0333		87.8	30-120			
Benzo (k) fluoranthene	0.0298	0.00500	"	0.0333		89.5	30-120			
Chrysene	0.0267	0.00500	"	0.0333		80.1	30-120			
Dibenz (a,h) anthracene	0.0268	0.00500	"	0.0333		80.3	30-120			
Fluoranthene	0.0278	0.00500	"	0.0333		83.3	30-120			
Fluorene	0.0277	0.00500	"	0.0333		83.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333		50.9	30-120			
Pyrene	0.0281	0.00500	"	0.0333		84.4	35-142			
1-Methylnaphthalene	0.0262	0.00500	"	0.0333		78.5	35-142			
2-Methylnaphthalene	0.0277	0.00500	"	0.0333		83.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0290		"	0.0333		86.9	40-150			
Surrogate: Fluoranthene-d10	0.0309		"	0.0333		92.7	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/04/23 14:38

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGE0002 - EPA 5030 Soil MS

Matrix Spike (BGE0002-MS1)	Source: 2304590-01			Prepared & Analyzed: 05/01/23							
Acenaphthene	0.132	0.00500	mg/kg	0.0333	0.175	NR	31-137				QM-01
Anthracene	0.188	0.00500	"	0.0333	0.232	NR	30-120				QM-01
Benzo (a) anthracene	0.263	0.00500	"	0.0333	0.326	NR	30-120				QM-01
Benzo (a) pyrene	0.173	0.00500	"	0.0333	0.213	NR	30-120				QM-01
Benzo (b) fluoranthene	0.236	0.00500	"	0.0333	0.302	NR	30-120				QM-01
Benzo (k) fluoranthene	0.110	0.00500	"	0.0333	0.129	NR	30-120				QM-01
Chrysene	0.299	0.00500	"	0.0333	0.373	NR	30-120				QM-01
Dibenz (a,h) anthracene	0.0327	0.00500	"	0.0333	0.0273	16.0	30-120				QM-01
Fluoranthene	0.518	0.00500	"	0.0333	0.599	NR	30-120				QM-01
Fluorene	0.130	0.00500	"	0.0333	0.156	NR	30-120				QM-01
Indeno (1,2,3-cd) pyrene	0.118	0.00500	"	0.0333	0.124	NR	30-120				QM-01
Pyrene	0.441	0.00500	"	0.0333	0.554	NR	35-142				QM-01
1-Methylnaphthalene	0.0299	0.00500	"	0.0333	0.0182	34.9	15-130				
2-Methylnaphthalene	0.0448	0.00500	"	0.0333	0.0429	5.68	15-130				QM-01
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0145</i>		<i>"</i>	<i>0.0333</i>		<i>43.6</i>	<i>40-150</i>				

Matrix Spike Dup (BGE0002-MSD1)	Source: 2304590-01			Prepared & Analyzed: 05/01/23							
Acenaphthene	0.163	0.00500	mg/kg	0.0333	0.175	NR	31-137	20.7	30		QM-01
Anthracene	0.224	0.00500	"	0.0333	0.232	NR	30-120	17.3	30		QM-01
Benzo (a) anthracene	0.431	0.00500	"	0.0333	0.326	314	30-120	48.2	30		QM-01
Benzo (a) pyrene	0.291	0.00500	"	0.0333	0.213	233	30-120	50.9	30		QM-01
Benzo (b) fluoranthene	0.413	0.00500	"	0.0333	0.302	331	30-120	54.6	30		QM-01
Benzo (k) fluoranthene	0.187	0.00500	"	0.0333	0.129	173	30-120	51.7	30		QM-01
Chrysene	0.483	0.00500	"	0.0333	0.373	329	30-120	47.1	30		QM-01
Dibenz (a,h) anthracene	0.0440	0.00500	"	0.0333	0.0273	49.9	30-120	29.5	30		QM-01
Fluoranthene	0.784	0.00500	"	0.0333	0.599	554	30-120	40.9	30		QM-01
Fluorene	0.153	0.00500	"	0.0333	0.156	NR	30-120	16.6	30		QM-01
Indeno (1,2,3-cd) pyrene	0.166	0.00500	"	0.0333	0.124	124	30-120	33.3	30		QM-01
Pyrene	0.690	0.00500	"	0.0333	0.554	409	35-142	43.9	30		QM-01
1-Methylnaphthalene	0.0330	0.00500	"	0.0333	0.0182	44.3	15-130	9.98	50		
2-Methylnaphthalene	0.0512	0.00500	"	0.0333	0.0429	25.0	15-130	13.4	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0148</i>		<i>"</i>	<i>0.0333</i>		<i>44.3</i>	<i>40-150</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/04/23 14:38

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

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

Batch BGE0041 - EPA 3050B

Blank (BGE0041-BLK1)

Prepared: 05/02/23 Analyzed: 05/03/23

Boron ND 0.0100 mg/L

LCS (BGE0041-BS1)

Prepared: 05/02/23 Analyzed: 05/03/23

Boron 5.62 0.0100 mg/L 5.00 112 80-120

Duplicate (BGE0041-DUP1)

Source: 2304596-01

Prepared: 05/02/23 Analyzed: 05/03/23

Boron 0.0214 0.0100 mg/L 0.0390 58.4 20 QR-03

Matrix Spike (BGE0041-MS1)

Source: 2304596-01

Prepared: 05/02/23 Analyzed: 05/03/23

Boron 3.49 0.0100 mg/L 5.00 0.0390 68.9 75-125 QM-05

Matrix Spike Dup (BGE0041-MSD1)

Source: 2304596-01

Prepared: 05/02/23 Analyzed: 05/03/23

Boron 2.91 0.0100 mg/L 5.00 0.0390 57.4 75-125 18.1 25 QM-05

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/04/23 14:38

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

Summit Scientific

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

Batch BGE0081 - General Preparation

Blank (BGE0081-BLK1)

Prepared: 05/02/23 Analyzed: 05/03/23

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

LCS (BGE0081-BS1)

Prepared: 05/02/23 Analyzed: 05/03/23

Calcium	4.76	0.0500	mg/L wet	5.00	95.3	70-130				
Magnesium	4.26	0.0500	"	5.00	85.2	70-130				
Sodium	4.18	0.0500	"	5.00	83.5	70-130				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/04/23 14:38

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

Summit Scientific

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

Batch BGE0070 - General Preparation

Duplicate (BGE0070-DUP1)

Source: 2304593-03

Prepared & Analyzed: 05/02/23

% Solids	92.1		%		90.8			1.38	20	
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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 - Trebor B12-05

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/04/23 14:38

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

Summit Scientific

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

Batch BGE0106 - General Preparation

Blank (BGE0106-BLK1)

Prepared & Analyzed: 05/03/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGE0106-BS1)

Prepared & Analyzed: 05/03/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGE0106-DUP1)

Source: 2304588-01

Prepared & Analyzed: 05/03/23

Specific Conductance (EC) 0.363 0.0100 mmhos/cm 0.363 0.0551 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/04/23 14:38

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

Summit Scientific

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

Batch BGE0107 - General Preparation

LCS (BGE0107-BS1)

Prepared & Analyzed: 05/03/23

pH	9.02	pH Units	9.18	98.3	95-105
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Duplicate (BGE0107-DUP1)

Source: 2304588-01

Prepared & Analyzed: 05/03/23

pH	7.51	pH Units	7.55	0.531	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Trebor B12-05

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/04/23 14:38

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference