

FREMONT ENVIRONMENTAL INC.

February 23, 2023

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

Subject: **Flowline Closure Data Submittal**
Easton 12-1
API # 05-123-10553
SENW Sec. 12, T4N, R65W
Weld County, Colorado
Fremont Project No. C022-203
Remediation # 23914

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline abandonment activities for the Noble Energy Inc. (Noble) Easton 12-1 flowline location. Details of Easton 12-1 flowline abandonment are documented in the attached Closure Report. Slightly elevated concentrations of pH were observed in flowline bellhole adjacent to the former wellhead. Impacts will be addressed during reclamation. Groundwater was not encountered.

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

Sincerely,

FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Attachments:

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

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

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
EASTON 12-1, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-203

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)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
FL01 3 ft	12/12/2022	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL02 3 ft	12/12/2022	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL05 4 ft	12/12/2022	4	<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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
EASTON 12-1, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-203

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)
COGCC 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
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01 3 ft	12/12/2022	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
FL02 3 ft	12/12/2022	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
FL05 4 ft	12/12/2022	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the 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

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
EASTON 12-1, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-203

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 3 ft	12/12/2022	3	8.18	0.569	0.699	1.250
FL02 3 ft	12/12/2022	3	8.33	0.510	0.439	0.376
FL05 4 ft	12/12/2022	4	8.00	0.492	0.351	0.512

Bold faced values exceed the COGCC Table 915-1 concentrations

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

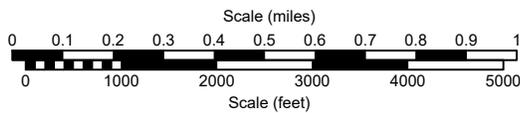
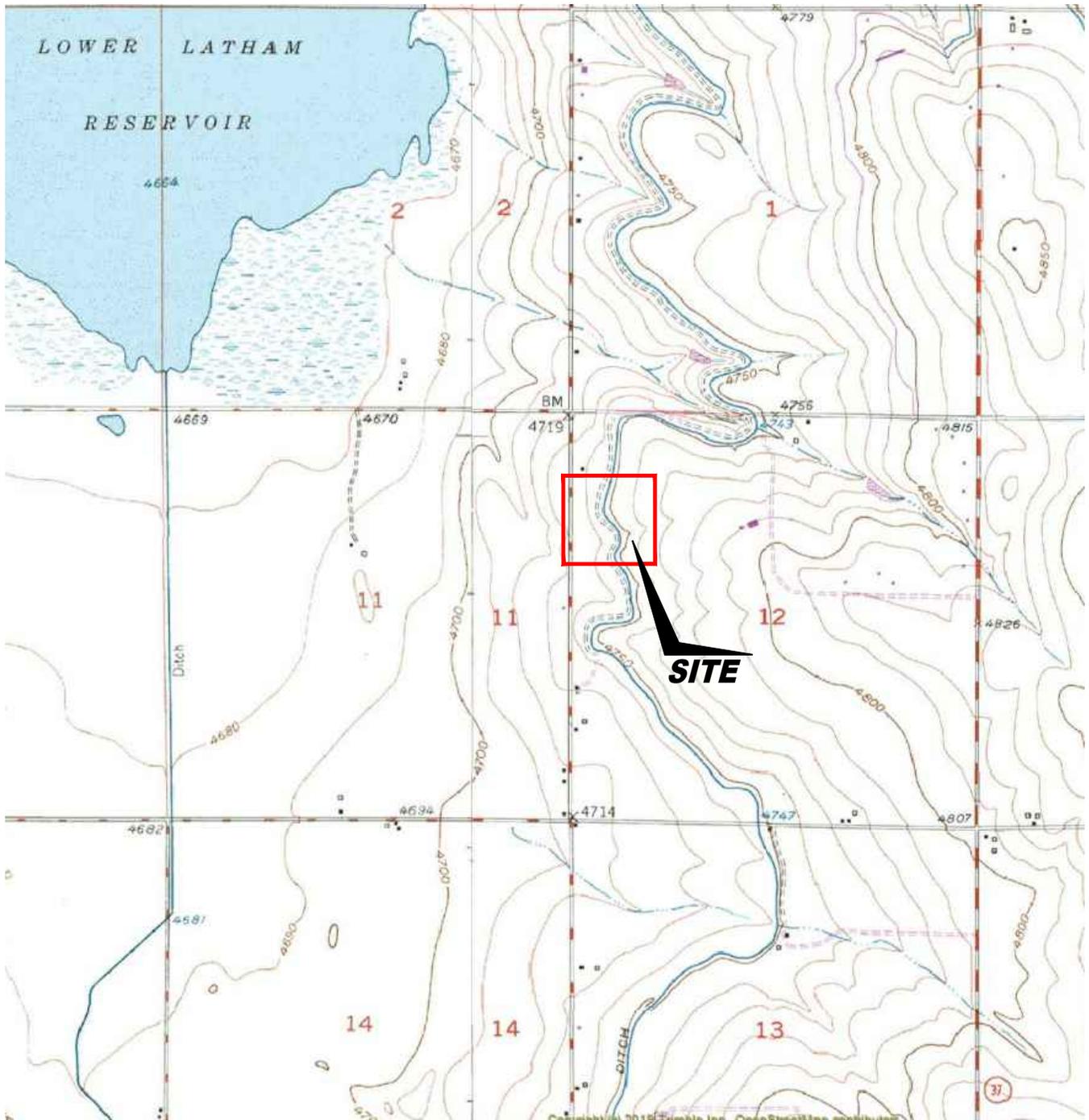
TABLE 4
SUMMARY OF POTHOLE FIELD OBSERVATIONS
NOBLE ENERGY INC.
EASTON 12-1, WELD COUNTY, COLORADO
FREMONT PROJECT C022-203

Location	Latitude	Longitude	PID Reading	Field Observations
FL01 2Ft	40.3287545	-104.6138448	0.0	No impacts observed
FL02 3 Ft	40.328868	-104.61317	0.0	No impacts observed
FL03 3 Ft	40.3290448	-104.6125341	0.0	No impacts observed
FL04 3 Ft AIP	40.3291704	-104.6120534	0.0	No impacts observed
FL05 4 Ft AIP	40.3292831	-104.6115824	0.0	No impacts observed

**TABLE 5
SUMMARY OF FLOW LINE CONDITION
NOBLE ENERGY INC.
EASTON 12-1, WELD COUNTY, COLORADO
FREMONT PROJECT C022-203**

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
FL01 2Ft	FL02 3 Ft	195	2" sch. 80 carbon steel, uncoated, good condition
FL02 3 Ft	FL03 3 Ft	187	2" sch. 80 carbon steel, uncoated, good condition
FL03 3 Ft	FL04 3 Ft AIP	154	2" sch. 80 carbon steel, uncoated, good condition, abandoned in place
FL04 3 Ft AIP	FL05 4 Ft AIP	155	2" sch. 80 carbon steel, uncoated, good condition, abandoned in place

691 **Total linear feet of flow line**



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC. ~ EASTON 12-1
 SENE Sec. 12, T4N, R65W, 6th PM
 Weld County, Colorado
 40.328710°, -104.613830°

Project # C022-203	API # 05-123-10553	Facility #
Date 5/2/23	Remediation # 23914	Filename 22203T





LEGEND

- WELL HEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- BUILDING
- CONTAINMENT BERM
- FENCE LINE
- ABANDONED IN PLACE FLOW LINE
- FLOW LINE

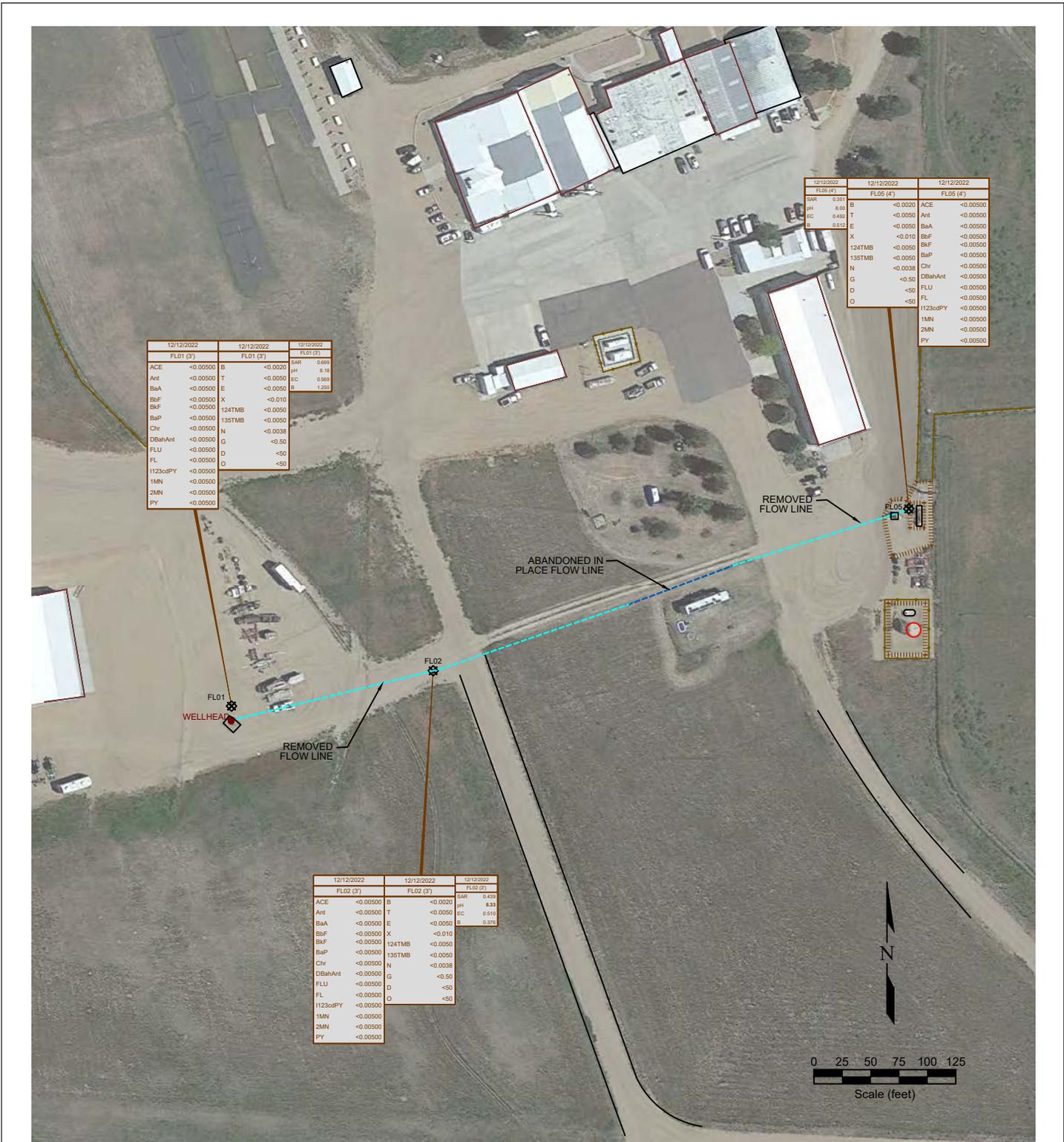
0.0 ppm	PID READING LOCATION IDENTIFICATION PHOTO IONIZATION DETECTION (ppm)
0.0 ppm	

**Figure 2
SITE MAP**

NOBLE ENERGY, INC. ~ EASTON 12-1
 SENW Sec. 12, T4N, R65W, 6th PM
 Weld County, Colorado
 40.328710 °, -104.613830°

Project No. C022-203	API # 05-123-10553	Facility #
Date 4/2/23	Remediation # 23914	Filename 22203T





12/12/2022		12/12/2022		12/12/2022	
FL01 (3')		FL01 (3')		FL01 (3')	
ACE	<0.0050	B	<0.0020	SAR	0.699
Ant	<0.0050	T	<0.0050	pH	8.16
BaA	<0.0050	E	<0.0050	EC	0.666
BaP	<0.0050	X	<0.010	B	1.262
BbF	<0.0050	124TMB	<0.0050		
BkF	<0.0050	135TMB	<0.0050		
ChP	<0.0050	N	<0.0038		
DBaHAnt	<0.0050	G	<0.50		
FLU	<0.0050	D	<50		
FL	<0.0050	O	<50		
1123cdPY	<0.0050				
1MN	<0.0050				
2MN	<0.0050				
PY	<0.0050				

12/12/2022		12/12/2022		12/12/2022	
FLO5 (4')		FLO5 (4')		FLO5 (4')	
SAR	0.351	B	<0.0020	ACE	<0.0050
pH	8.10	T	<0.0050	Ant	<0.0050
EC	0.463	E	<0.0050	BaA	<0.0050
B	0.512	X	<0.010	BbF	<0.0050
		124TMB	<0.0050	BkF	<0.0050
		135TMB	<0.0050	BaP	<0.0050
		N	<0.0038	ChP	<0.0050
		G	<0.50	DBaHAnt	<0.0050
		D	<50	FLU	<0.0050
		O	<50	FL	<0.0050
				1123cdPY	<0.0050
				1MN	<0.0050
				2MN	<0.0050
				PY	<0.0050

12/12/2022		12/12/2022		12/12/2022	
FL02 (3')		FL02 (3')		FL02 (3')	
ACE	<0.0050	B	<0.0020	SAR	4.439
Ant	<0.0050	T	<0.0050	pH	8.33
BaA	<0.0050	E	<0.0050	EC	0.910
BaP	<0.0050	X	<0.010	B	0.701
BbF	<0.0050	124TMB	<0.0050		
BkF	<0.0050	135TMB	<0.0050		
ChP	<0.0050	N	<0.0038		
DBaHAnt	<0.0050	G	<0.50		
FLU	<0.0050	D	<50		
FL	<0.0050	O	<50		
1123cdPY	<0.0050				
1MN	<0.0050				
2MN	<0.0050				
PY	<0.0050				

LEGEND

- WELL HEAD LOCATION
- ABOVE GROUND STORAGE TANK
- ⊗ SOIL SAMPLE LOCATION
- FORMER FACILITY
- FORMER BUILDING
- CONTAINMENT BERM
- FENCE LINE
- ABANDONED IN PLACE FLOW LINE
- FLOW LINE

12/12/2022		12/12/2022		12/12/2022		12/12/2022	
DATE SAMPLED		DATE SAMPLED		DATE SAMPLED		DATE SAMPLED	
SAMPLE ID and DEPTH (ft)		SAMPLE ID and DEPTH (ft)		SAMPLE ID and DEPTH (ft)		SAMPLE ID and DEPTH (ft)	
FL01 (3')		FL01 (3')		FL02 (3')		FL02 (3')	
ACE	<0.0050	B	<0.0020	B	<0.0020	B	<0.0020
Ant	<0.0050	T	<0.0050	T	<0.0050	T	<0.0050
BaA	<0.0050	E	<0.0050	E	<0.0050	E	<0.0050
BaP	<0.0050	X	<0.010	X	<0.010	X	<0.010
BbF	<0.0050	124TMB	<0.0050	124TMB	<0.0050	124TMB	<0.0050
BkF	<0.0050	135TMB	<0.0050	135TMB	<0.0050	135TMB	<0.0050
BaP	<0.0050	N	<0.0038	N	<0.0038	N	<0.0038
ChP	<0.0050	G	<0.50	G	<0.50	G	<0.50
DBaHAnt	<0.0050	D	<50	D	<50	D	<50
FLU	<0.0050	O	<50	O	<50	O	<50
FL	<0.0050						
1123cdPY	<0.0050						
1MN	<0.0050						
2MN	<0.0050						
PY	<0.0050						

Figure 3
SOIL CHEMISTRY MAP

NOBLE ENERGY, INC. ~ EASTON 12-1
 SENW Sec. 12, T4N, R65W, 6th PM
 Weld County, Colorado
 40.328710 °, -104.613830°

Project No. C022-203	API # 05-123-10553	Facility #	
Date 4/2/23	Remediation # 23914	Filename 22203T	

Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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

December 20, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Easton

Work Order #2212236

Enclosed are the results of analyses for samples received by Summit Scientific on 12/12/22 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3 ft	2212236-01	Soil	12/12/22 00:00	12/12/22 16:30
FL02 3 ft	2212236-02	Soil	12/12/22 00:00	12/12/22 16:30
FL05 4 ft	2212236-03	Soil	12/12/22 00:00	12/12/22 16:30

Summit Scientific

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

Summit Scientific

2212236

S₂

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

Page 1 of 1

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 - Easton
Sampler Name: FJS 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
1	FLO1 3FT	12/12/22		2			X			X			X	X	X				
2	FLO2 3FT			1															
3	FLO5 4FT			1															
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/12/22 1630</u>	Received by: <u>S2</u>	Date/Time: <u>12/12/27 1630</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>S2</u>	Date/Time: <u>12/12/22 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/12/22 1630</u>	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>7.0</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2212236

Client: Noble / Fremont Client Project ID: Easton

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"/>	<i>On ice.</i>
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.

Jack Brar
Custodian Printed Name

12/12/22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL01 3 ft
2212236-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0346	12/14/22	12/15/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0349	12/14/22	12/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.1	97.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL01 3 ft
2212236-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0315	12/13/22	12/13/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0310	93.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.25	0.0100	mg/L	1	BFL0338	12/13/22	12/14/22	EPA 6020B	

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

Date Sampled: **12/12/22 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 - Easton
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL01 3 ft
2212236-01 (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	44.8	0.0555	mg/L dry	1	BFL0441	12/17/22	12/19/22	EPA 6020B	
Magnesium	16.3	0.0555	"	"	"	"	"	"	
Sodium	21.5	0.0555	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.699	0.00100	units	1	BFL0509	12/20/22	12/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.0		%	1	BFL0440	12/17/22	12/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.569	0.0100	mmhos/cm	1	BFL0453	12/18/22	12/18/22	EPA 120.1	

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

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BFL0454	12/18/22	12/18/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL02 3 ft
2212236-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0346	12/14/22	12/15/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0378	94.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0349	12/14/22	12/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.5	116 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL02 3 ft
2212236-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0315	12/13/22	12/13/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	48.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0271	81.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.376	0.0100	mg/L	1	BFL0338	12/13/22	12/14/22	EPA 6020B	

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

Date Sampled: **12/12/22 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 - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

FL02 3 ft
2212236-02 (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	38.3	0.0587	mg/L dry	1	BFL0441	12/17/22	12/19/22	EPA 6020B	
Magnesium	37.2	0.0587	"	"	"	"	"	"	
Sodium	15.9	0.0587	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.439	0.00100	units	1	BFL0509	12/20/22	12/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BFL0440	12/17/22	12/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.510	0.0100	mmhos/cm	1	BFL0453	12/18/22	12/18/22	EPA 120.1	

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

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BFL0454	12/18/22	12/18/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL05 4 ft
2212236-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0346	12/14/22	12/15/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0349	12/14/22	12/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.1	129 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL05 4 ft
2212236-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0315	12/13/22	12/13/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0169	50.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0287	86.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.512	0.0100	mg/L	1	BFL0338	12/13/22	12/14/22	EPA 6020B	

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

Date Sampled: **12/12/22 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 - Easton
 Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

FL05 4 ft
2212236-03 (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	63.5	0.0578	mg/L dry	1	BFL0441	12/17/22	12/19/22	EPA 6020B	
Magnesium	15.1	0.0578	"	"	"	"	"	"	
Sodium	12.0	0.0578	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.351	0.00100	units	1	BFL0509	12/20/22	12/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BFL0440	12/17/22	12/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.492	0.0100	mmhos/cm	1	BFL0453	12/18/22	12/18/22	EPA 120.1	

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

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BFL0454	12/18/22	12/18/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFL0346 - EPA 5030 Soil MS

Blank (BFL0346-BLK1)

Prepared & Analyzed: 12/14/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0382		"	0.0400		95.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		97.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0401		"	0.0400		100	50-150			

LCS (BFL0346-BS1)

Prepared & Analyzed: 12/14/22

Benzene	0.124	0.0020	mg/kg	0.125		99.3	70-130			
Toluene	0.141	0.0050	"	0.125		113	70-130			
Ethylbenzene	0.162	0.0050	"	0.125		130	70-130			
m,p-Xylene	0.314	0.010	"	0.250		126	70-130			
o-Xylene	0.146	0.0050	"	0.125		117	70-130			
1,2,4-Trimethylbenzene	0.153	0.0050	"	0.125		123	70-130			
1,3,5-Trimethylbenzene	0.163	0.0050	"	0.125		130	70-130			
Naphthalene	0.115	0.0038	"	0.125		91.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0357		"	0.0400		89.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0396		"	0.0400		99.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0375		"	0.0400		93.8	50-150			

Matrix Spike (BFL0346-MS1)

Source: 2212212-01

Prepared & Analyzed: 12/14/22

Benzene	0.124	0.0020	mg/kg	0.125	ND	99.0	70-130			
Toluene	0.143	0.0050	"	0.125	ND	114	70-130			
Ethylbenzene	0.162	0.0050	"	0.125	ND	130	70-130			
m,p-Xylene	0.318	0.010	"	0.250	ND	127	70-130			
o-Xylene	0.147	0.0050	"	0.125	ND	117	70-130			
1,2,4-Trimethylbenzene	0.160	0.0050	"	0.125	ND	128	70-130			
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125	ND	124	70-130			
Naphthalene	0.149	0.0038	"	0.125	ND	119	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0391		"	0.0400		97.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0394		"	0.0400		98.5	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0385		"	0.0400		96.2	50-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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 BFL0346 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0346-MSD1)	Source: 2212212-01			Prepared & Analyzed: 12/14/22						
Benzene	0.120	0.0020	mg/kg	0.125	ND	96.0	70-130	3.08	30	
Toluene	0.140	0.0050	"	0.125	ND	112	70-130	2.15	30	
Ethylbenzene	0.154	0.0050	"	0.125	ND	123	70-130	4.86	30	
m,p-Xylene	0.304	0.010	"	0.250	ND	122	70-130	4.58	30	
o-Xylene	0.143	0.0050	"	0.125	ND	115	70-130	2.38	30	
1,2,4-Trimethylbenzene	0.152	0.0050	"	0.125	ND	122	70-130	4.68	30	
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125	ND	125	70-130	0.289	30	
Naphthalene	0.144	0.0038	"	0.125	ND	115	70-130	3.99	30	
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.6	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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 BFL0349 - EPA 3550A

Blank (BFL0349-BLK1)

Prepared & Analyzed: 12/14/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	17.4		"	12.5		139		30-150			

LCS (BFL0349-BS1)

Prepared & Analyzed: 12/14/22

C10-C28 (DRO)	501	50	mg/kg	500		100		70-130			
Surrogate: <i>o</i> -Terphenyl	16.2		"	12.5		130		30-150			

Matrix Spike (BFL0349-MS1)

Source: 2212212-01

Prepared & Analyzed: 12/14/22

C10-C28 (DRO)	479	50	mg/kg	500	15.2	92.7		70-130			
Surrogate: <i>o</i> -Terphenyl	9.76		"	12.5		78.0		30-150			

Matrix Spike Dup (BFL0349-MSD1)

Source: 2212212-01

Prepared & Analyzed: 12/14/22

C10-C28 (DRO)	452	50	mg/kg	500	15.2	87.3		70-130	5.89	20	
Surrogate: <i>o</i> -Terphenyl	8.40		"	12.5		67.2		30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFL0315 - EPA 5030 Soil MS

Blank (BFL0315-BLK1)

Prepared & Analyzed: 12/13/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0232		"	0.0333		69.5	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0316		"	0.0333		94.7	40-150			

LCS (BFL0315-BS1)

Prepared & Analyzed: 12/13/22

Acenaphthene	0.0346	0.00500	mg/kg	0.0333	104	31-137
Anthracene	0.0345	0.00500	"	0.0333	104	30-120
Benzo (a) anthracene	0.0351	0.00500	"	0.0333	105	30-120
Benzo (a) pyrene	0.0357	0.00500	"	0.0333	107	30-120
Benzo (b) fluoranthene	0.0358	0.00500	"	0.0333	107	30-120
Benzo (k) fluoranthene	0.0353	0.00500	"	0.0333	106	30-120
Chrysene	0.0372	0.00500	"	0.0333	112	30-120
Dibenz (a,h) anthracene	0.0315	0.00500	"	0.0333	94.6	30-120
Fluoranthene	0.0347	0.00500	"	0.0333	104	30-120
Fluorene	0.0341	0.00500	"	0.0333	102	30-120
Indeno (1,2,3-cd) pyrene	0.0276	0.00500	"	0.0333	82.9	30-120
Pyrene	0.0370	0.00500	"	0.0333	111	35-142
1-Methylnaphthalene	0.0303	0.00500	"	0.0333	91.0	35-142
2-Methylnaphthalene	0.0314	0.00500	"	0.0333	94.3	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0290		"	0.0333	87.1	40-150
<i>Surrogate: Fluoranthene-d10</i>	0.0362		"	0.0333	109	40-150

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

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 BFL0315 - EPA 5030 Soil MS

Matrix Spike (BFL0315-MS1)	Source: 2212236-01			Prepared & Analyzed: 12/13/22								
Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	63.9	31-137					
Anthracene	0.0212	0.00500	"	0.0333	ND	63.5	30-120					
Benzo (a) anthracene	0.0215	0.00500	"	0.0333	0.00129	60.8	30-120					
Benzo (a) pyrene	0.0189	0.00500	"	0.0333	ND	56.8	30-120					
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	0.00114	54.7	30-120					
Benzo (k) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.3	30-120					
Chrysene	0.0232	0.00500	"	0.0333	0.000966	66.8	30-120					
Dibenz (a,h) anthracene	0.0159	0.00500	"	0.0333	ND	47.6	30-120					
Fluoranthene	0.0252	0.00500	"	0.0333	0.00153	71.1	30-120					
Fluorene	0.0213	0.00500	"	0.0333	ND	63.9	30-120					
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.6	30-120					
Pyrene	0.0239	0.00500	"	0.0333	0.000647	69.6	35-142					
1-Methylnaphthalene	0.0221	0.00500	"	0.0333	ND	66.2	15-130					
2-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.7	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0196</i>		<i>"</i>	<i>0.0333</i>		<i>58.9</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0248</i>		<i>"</i>	<i>0.0333</i>		<i>74.3</i>	<i>40-150</i>					

Matrix Spike Dup (BFL0315-MSD1)	Source: 2212236-01			Prepared & Analyzed: 12/13/22								
Acenaphthene	0.0226	0.00500	mg/kg	0.0333	ND	67.9	31-137	6.05	30			
Anthracene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	7.02	30			
Benzo (a) anthracene	0.0235	0.00500	"	0.0333	0.00129	66.6	30-120	8.61	30			
Benzo (a) pyrene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	10.2	30			
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	0.00114	58.9	30-120	7.11	30			
Benzo (k) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.3	30-120	8.46	30			
Chrysene	0.0241	0.00500	"	0.0333	0.000966	69.3	30-120	3.55	30			
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	4.62	30			
Fluoranthene	0.0290	0.00500	"	0.0333	0.00153	82.5	30-120	14.0	30			
Fluorene	0.0226	0.00500	"	0.0333	ND	67.9	30-120	6.07	30			
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333	ND	57.2	30-120	1.01	30			
Pyrene	0.0221	0.00500	"	0.0333	0.000647	64.4	35-142	7.55	30			
1-Methylnaphthalene	0.0237	0.00500	"	0.0333	ND	71.0	15-130	7.01	50			
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.6	15-130	5.90	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0237</i>		<i>"</i>	<i>0.0333</i>		<i>71.0</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0282</i>		<i>"</i>	<i>0.0333</i>		<i>84.7</i>	<i>40-150</i>					

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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

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

Batch BFL0338 - EPA 3050B

Blank (BFL0338-BLK1)

Prepared: 12/13/22 Analyzed: 12/14/22

Boron ND 0.0100 mg/L

LCS (BFL0338-BS1)

Prepared: 12/13/22 Analyzed: 12/14/22

Boron 5.38 0.0100 mg/L 5.00 108 80-120

Duplicate (BFL0338-DUP1)

Source: 2212212-01

Prepared: 12/13/22 Analyzed: 12/14/22

Boron 0.318 0.0100 mg/L 0.286 10.6 20

Matrix Spike (BFL0338-MS1)

Source: 2212212-01

Prepared: 12/13/22 Analyzed: 12/14/22

Boron 5.28 0.0100 mg/L 5.00 0.286 99.8 75-125

Matrix Spike Dup (BFL0338-MSD1)

Source: 2212212-01

Prepared: 12/13/22 Analyzed: 12/14/22

Boron 5.52 0.0100 mg/L 5.00 0.286 105 75-125 4.53 25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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 BFL0441 - General Preparation

Blank (BFL0441-BLK1)

Prepared: 12/17/22 Analyzed: 12/19/22

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

LCS (BFL0441-BS1)

Prepared: 12/17/22 Analyzed: 12/19/22

Calcium	4.19	0.0500	mg/L wet	5.00		83.7	70-130			
Magnesium	4.46	0.0500	"	5.00		89.1	70-130			
Sodium	4.13	0.0500	"	5.00		82.5	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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

Summit Scientific

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

Batch BFL0440 - General Preparation

Duplicate (BFL0440-DUP1)

Source: 2212234-01

Prepared & Analyzed: 12/17/22

% Solids	94.0		%		94.6			0.656	20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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 BFL0453 - General Preparation

Blank (BFL0453-BLK1)

Prepared & Analyzed: 12/18/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFL0453-BS1)

Prepared & Analyzed: 12/18/22

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

Duplicate (BFL0453-DUP1)

Source: 2212234-01

Prepared & Analyzed: 12/18/22

Specific Conductance (EC) 0.336 0.0100 mmhos/cm 0.331 1.62 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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 BFL0454 - General Preparation

LCS (BFL0454-BS1)

Prepared & Analyzed: 12/18/22

pH	8.99	pH Units	9.18	97.9	95-105
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Duplicate (BFL0454-DUP1)

Source: 2212234-01

Prepared & Analyzed: 12/18/22

pH	7.97	pH Units	7.87	1.26	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

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