

FREMONT ENVIRONMENTAL INC.

August 2, 2023

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

Subject: **Flowline Closure Data Submittal**
 HSR Cutler 14-31 Flowline
 API # 05-123-15168
 SESW Sec. 31, T4N, R65W
 Weld County, Colorado
 Fremont Project No. C023-112
 Remediation # 27651

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline abandonment activities at the Noble Energy Inc. (Noble) HSR Cutler 14-31 Flowline. Details of the flowline abandonment activities are documented in the attached Closure Report. Groundwater was not encountered during decommissioning activities.

Please contact me at (970) 213-7488 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Chris Lattes
Consultant

Attachments:

Figures
Tables
Flowline Closure Checklist
Photos
Laboratory Reports

Flowline Closure Checklist

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

<i>Additional Attachments:</i>		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
<i>Site Name & COGCC Facility Number:</i>		<i>Date:</i>						<i>Remediation Project #:</i>
<i>Associated Wells:</i>		<i>Age of Site:</i>						<i>Number of Photos Attached:</i>
<i>Starting point: (GPS coordinates and descriptions)</i>								
<i>End point: (GPS coordinates and descriptions)</i>								
<i>USCS Soil Type:</i>					<i>Estimated Depth to Groundwater:</i>			
<i>Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i>								
<i>Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i>								
Flowlines								
<i>Flowline type</i>								
<i>Depth</i>								
<i>Age</i>								
<i>Length</i>								
<i>Construction Material</i>								
<i>Were flowlines pulled?</i>								
<i>Visual Integrity of lines</i>								
<i>Visual impacts if trenched</i>								
<i>PID Readings if trenched</i>								
<i>Sample taken? Location/Sample ID#</i>								
<i>Photo Number(s)</i>								
<i>Other observations regarding on location flowlines:</i>								
Summary								
<i>Was impacted soil identified?</i> <div> <div>No</div> <div>Yes - less than 10 cubic yards</div> <div>Yes - more than 10 cubic yards</div> </div>								
<i>Total number of samples field screened:</i>					<i>Total number of samples collected:</i>			
<i>Highest PID Reading:</i>					<i>Total number of samples submitted to lab for analysis:</i>			
<i>If more than 10 cubic yards of impacted soil were observed:</i>								
<i>Vertical extent:</i>					<i>Estimated spill volume:</i>			
<i>Lateral extent:</i>					<i>Volume of soil removed:</i>			
<i>Is additional investigation required?</i>								
<i>Was groundwater encountered during the investigation?</i> <div> <div>No</div> <div>Yes - not impacted or in contact with impacted soils</div> <div>Yes - groundwater impacted and/or in contact with impacted soils</div> </div>								
<i>Measured depth to groundwater:</i>					<i>Was remedial groundwater removal conducted? Yes No</i>			
<i>Date Groundwater was encountered:</i>					<i>Commencement date of removal:</i>			
<i>Sheen on groundwater? Yes No</i>					<i>Volume of groundwater removed prior to sampling:</i>			
<i>Free product observed? Yes No</i>					<i>Volume of groundwater removed post sampling:</i>			
<i>Total number of samples collected:</i>					<i>Total Volume of groundwater removed:</i>			
<i>Total number of samples submitted to lab for analysis:</i>								

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
HSR CUTLER 31-15G, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-112

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		
SEP02@4'	04/24/2023	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)

* 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.
HSR CUTLER 31-15G, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-112

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
SEP02@4'	04/24/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 3
SUMMARY OF SOIL SUITIBILITY FOR RECLAMATION
NOBLE ENERGY, INC.
HSR CUTLER 31-15G, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-112

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
SEP02@4'	04/24/2023	4'	7.07	0.204	0.139	<0.0100

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.
HSR CUTLER 14-31, WELD COUNTY, COLORADO
FREMONT PROJECT C023-112

Location	Latitude	Longitude	PID Reading	Field Observations
SEP02@4'	40.265392	-104.710479	1	No suspected impacts.
FL01@6'	40.265279	-104.710356	0.5	No suspected impacts.
WH (Sampled by others)	40.263485	-104.70859	-	Sampled by others.

TABLE 5
SUMMARY OF FLOW LINE CONDITION
NOBLE ENERGY INC.
HSR CUTLER 14-31, WELD COUNTY, COLORADO
FREMONT PROJECT C023-112

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
SEP02@4'	FL01@6'	54	2" steel, good condition. Removed flowline.
FL01@6'	WH (Sampled by others)	824	2" steel, good condition. AIP flowline.

878 Total linear feet of flow line

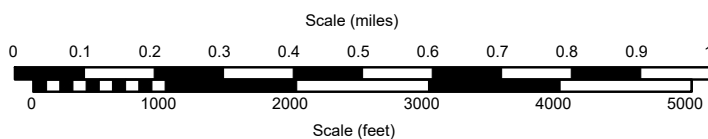
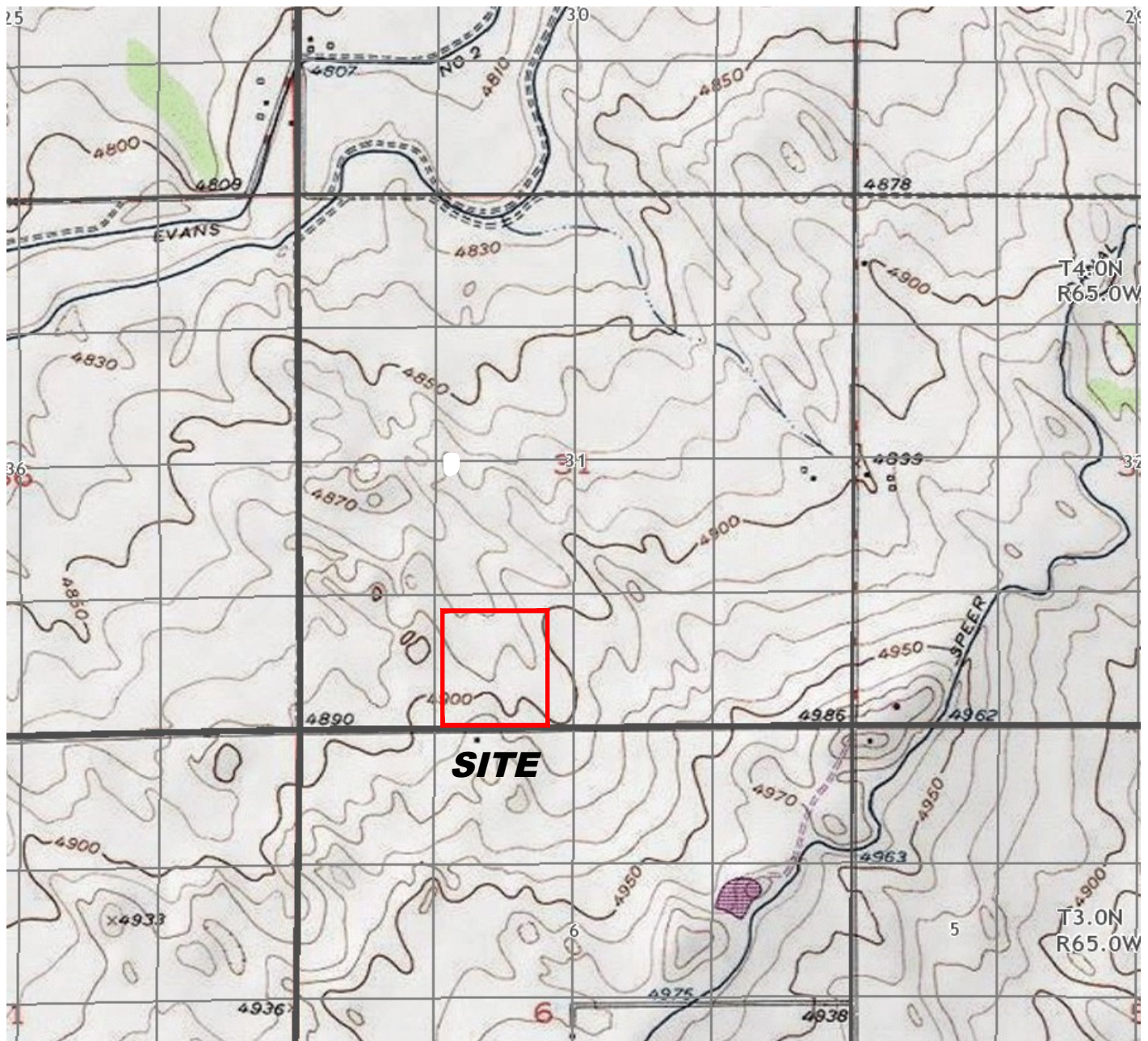


Figure 1
 Site Location Map
 HSR Cutler 14-31
 SESW S31 T4N R65W
 Weld County, Colorado




USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Drawn By: HM
 Date: 09/13/2023





Legend

-  PID READING LOCATION
-  FORMER FLOWLINE
-  WELL HEAD LOCATION

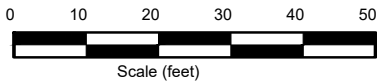
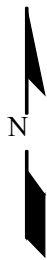


Figure 2
Site Map

Noble Energy, Inc. – HSR Cutler 14-31
SESW, Sec. 31, T4N, R65W, 6th PM
Weld County, Colorado
40.265392°, -104.71047°



Date: 09/13/2023

Remediation #: 27651

API #: 05-123-15168

Project No. CO023-112

Filename :







04/24/23	
SEP02 4FT	
ACE	<0.00500
Ant	<0.00500
BaA	<0.00500
BbF	<0.00500
BaP	<0.00500
Chr	<0.00500
DBahAnt	<0.00500
FLU	<0.00500
FL	<0.00500
I123cdPY	<0.00500
1MN	<0.00500
2MN	<0.00500
PY	<0.00500

04/24/23	
SEP02 4FT	
B	<0.0020
T	<0.0050
E	<0.0050
X	<0.010
124TMB	<0.0050
135TMB	<0.0050
N	<0.0038
G	<0.50
D	<50
O	<50

04/24/23	
SEP02 4FT	
SAR	0.139
pH	7.07
EC	0.204
B	<0.0100

Legend

-  PID READING LOCATION
-  FORMER FLOWLINE
-  SOIL SAMPLE LOCATION
-  WELL HEAD LOCATION

04/24/23		DATE SAMPLED
SEP02 4FT		SAMPLE ID and DEPTH (ft)
ACE	<0.00500	ACENAPHTHENE (mg/kg)
Ant	<0.00500	ANTHRACENE (mg/kg)
BaA	<0.00500	BENZO(A)ANTHRACENE (mg/kg)
BbF	<0.00500	BENZO(B)FLUORANTHENE (mg/kg)
BaP	<0.00500	BENZO(K)FLUORANTHENE (mg/kg)
Chr	<0.00500	CHRYSENE (mg/kg)
DBahAnt	<0.00500	DIBENZ(A,H)ANTHRACENE (mg/kg)
FLU	<0.00500	FLUORENE (mg/kg)
FL	<0.00500	FLUORENE (mg/kg)
I123cdPY	<0.00500	INDENO(1,2,3-CD)PYRENE (mg/kg)
1MN	<0.00500	1-METHYLNAPHTHALENE (mg/kg)
2MN	<0.00500	2-METHYLNAPHTHALENE (mg/kg)
PY	<0.00500	PYRENE (mg/kg)

04/24/23		DATE SAMPLED
SEP02 4FT		SAMPLE ID and DEPTH (ft)
SAR	2.22	SAR (units)
pH	8.08	pH (units)
EC	0.489	EC (mmhos/cm)
B	0.0514	BORON (mg/L)

04/24/23		DATE SAMPLED
SEP02 4FT		SAMPLE ID and DEPTH (ft)
B	<0.0020	BENZENE (mg/kg)
T	<0.0050	TOLUENE (mg/kg)
E	<0.0050	ETHYLBENZENE (mg/kg)
X	<0.010	TOTAL XYLENES (mg/kg)
124TMB	<0.0050	1,2,4-TRIMETHYLBENZENE
135TMB	<0.0050	1,3,5-TRIMETHYLBENZENE
N	<0.0038	NAPHTHALENE (mg/kg)
G	<0.50	TPH-GRO (mg/kg)
D	<50	TPH-DRO (mg/kg)
O	<50	TPH-ORO (mg/kg)

Figure 3
SOIL CHEMISTRY MAP

Noble Energy, Inc. – HSR Cutler 14-31
SESW, Sec. 31, T4N, R65W, 6th PM
Weld County, Colorado
40.265392° , -104.71047°



Date: 09/13/2023

Remediation #: 27651

API #: 05-123-15168

Project No. CO023-112

Filename :

Photo Log

DIRECTION
SE (T)

40.26540°N
104.71044°W

ACCURACY 4 m
DATUM WGS84



Taken With
Context Camera

HSR Cutler 14-31, HSR
Sells 13-31 & UPRC 3...

Facility SEP01 & UPRC
FL PNA

2023-04-24
11:26:23-06:00

Description:

SEP01@5', UPRC 31-15G FL AIP

Photo Log

DIRECTION
SE (T)

40.26543°N
104.71053°W

ACCURACY 4 m
DATUM WGS84



Taken With
Context Camera

HSR Cutler 14-31, HSR
Sells 13-31 & UPRC 3...

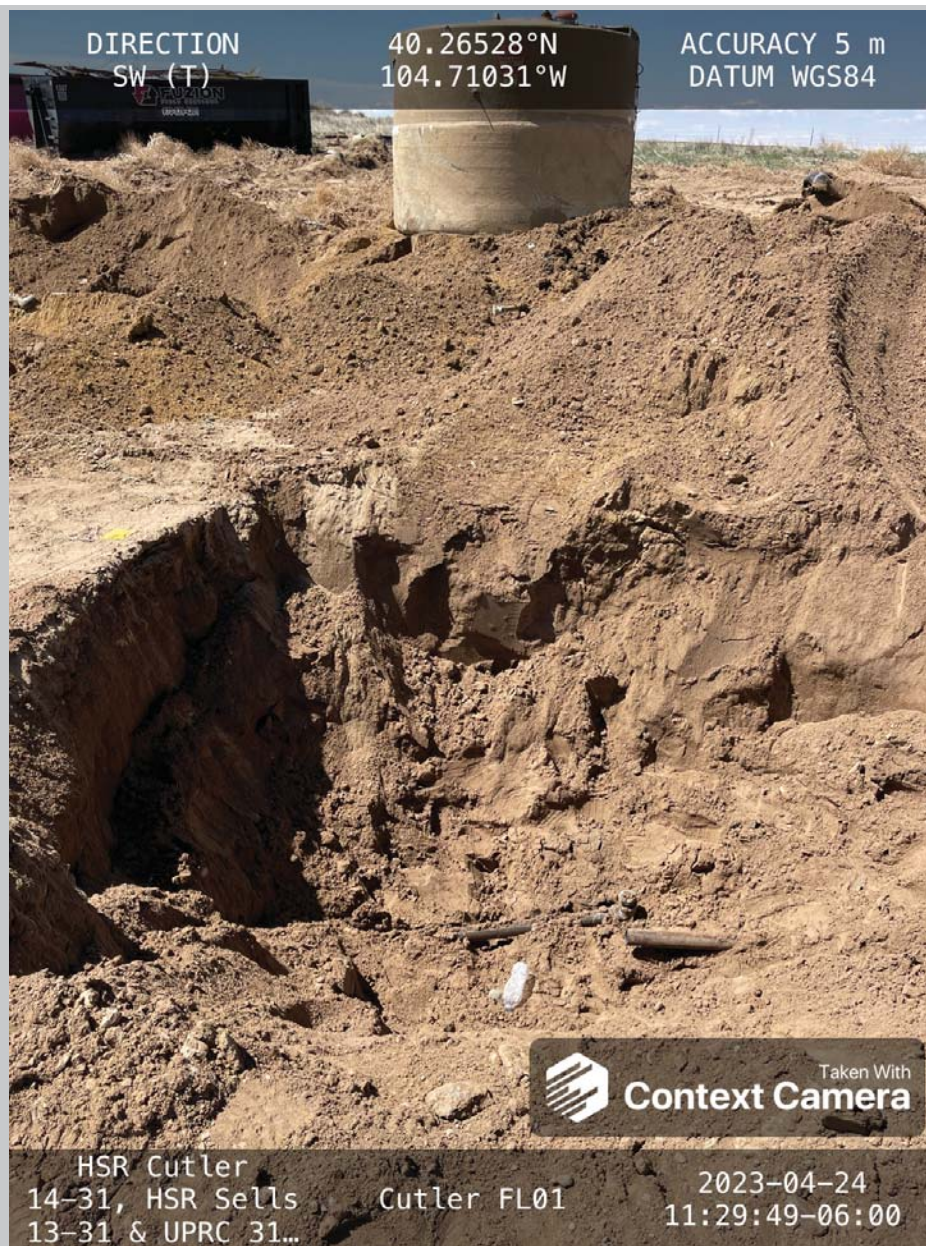
Facility SEP02

2023-04-24
12:59:35-06:00

Description:

SEP02@4'

Photo Log



Description:

HSR Cutler 14-31 AIP and FL01@6'

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

May 16, 2023

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: HSR - Sells-64N6SW 31SWSW

Work Order # 2304593

Enclosed are the results of analyses for samples received by Summit Scientific on 04/26/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Scott Sheely For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL04@5'	2304593-01	Soil	04/21/23 00:00	04/26/23 16:30
AST01@6"	2304593-02	Soil	04/21/23 00:00	04/26/23 16:30
AST02@6"	2304593-03	Soil	04/21/23 00:00	04/26/23 16:30
SEP02@4'	2304593-04	Soil	04/24/23 00:00	04/26/23 16:30
PWVN01@4'	2304593-05	Soil	04/24/23 00:00	04/26/23 16:30
PWVB01@5.5'	2304593-06	Soil	04/24/23 00:00	04/26/23 16:30

Summit Scientific

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

2304593

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page (of)

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 Noble

Phone:

Project Name: HSR-Sealls-64N65W 31SW5W

Sampler Name: Chris Lattes

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	TPH, BTEX, TMBs, Naph	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD			
1	FL04 @ 5'	4/21/23		2			X			X				X	X	X					
2	AST01 @ 6'	4/21/23		2			X			X				X	X	X					
3	AST02 @ 6'	4/21/23		2			X			X				X	X	X					
4	SEP02 @ 4'	4/24/23		2			X			X				X	X	X					
5	PWVN01 @ 4'	↓		2			X			X				X	X	X					
6	PWV001 @ 5.5'	4/24/23		2			X			X				X	X	X					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes: Facility + FL HSR Sealls 13-31 HSR Cutlow 14-31 UPRC 31-156
Chris Lattes	4/26/23 13:15	SL	4/26/23 13:15	Same Day	72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
SL	4/26/23 1630	[Signature]	4/26/23 1630	48 hours	X	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	Temperature Upon Receipt:	
				Samples Intact: Yes No	9.2	

S₂

Sample Receipt Checklist

S2 Work Order# 2304593Client: FremontClient Project ID: HSR-Sells-64N 69W 31SWShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #: ☐

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

9.2

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>NOTE</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

4/26/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

FL04@5'
2304593-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGE0033	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: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0034	"	05/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

FL04@5'
2304593-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGD0953	04/28/23	05/03/23	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: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		64.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0143	0.0100		mg/L	1	BGE0042	05/02/23	05/03/23	EPA 6020B	

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

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

FL04@5'
2304593-01 (Soil)

Summit Scientific

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

Calcium	27.8	0.0536	mg/L dry	1	BGE0081	05/02/23	05/03/23	EPA 6020B
Magnesium	5.46	0.0536	"	"	"	"	"	"
Sodium	8.11	0.0536	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.368	0.00100		units	1	BGE0145	05/04/23	05/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3			%	1	BGE0014	05/01/23	05/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.308	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: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.48			pH Units	1	BGE0107	05/03/23	05/03/23	EPA 9045D	

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: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

AST01@6"
2304593-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0033	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: **04/21/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		115 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0034	"	05/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		95.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

AST01@6"
2304593-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGD0953	04/28/23	05/03/23	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: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		68.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.5 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0654	0.0100		mg/L	1	BGE0042	05/02/23	05/03/23	EPA 6020B	

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

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

AST01@6"
2304593-02 (Soil)

Summit Scientific

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

Calcium	528	0.0524	mg/L dry	1	BGE0081	05/02/23	05/03/23	EPA 6020B
Magnesium	59.8	0.0524	"	"	"	"	"	"
Sodium	17.8	0.0524	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.196	0.00100		units	1	BGE0145	05/04/23	05/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3			%	1	BGE0014	05/01/23	05/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.372	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: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69			pH Units	1	BGE0107	05/03/23	05/03/23	EPA 9045D	

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: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

AST02@6"
2304593-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0033	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: **04/21/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0034	"	05/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		86.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

AST02@6"
2304593-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGD0953	04/28/23	05/03/23	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: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0181	0.0100		mg/L	1	BGE0042	05/02/23	05/03/23	EPA 6020B	

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

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

AST02@6''
2304593-03 (Soil)

Summit Scientific

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

Calcium	70.4	0.0551	mg/L dry	1	BGE0081	05/02/23	05/03/23	EPA 6020B
Magnesium	15.0	0.0551	"	"	"	"	"	"
Sodium	1.51	0.0551	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0426	0.00100		units	1	BGE0145	05/04/23	05/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.8			%	1	BGE0070	05/02/23	05/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.30	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: **04/21/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.92			pH Units	1	BGE0107	05/03/23	05/03/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

SEP02@4'
2304593-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0033	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: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0034	"	05/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		88.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

SEP02@4'
2304593-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGD0953	04/28/23	05/03/23	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: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		62.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100		mg/L	1	BGE0042	05/02/23	05/03/23	EPA 6020B	

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

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

SEP02@4'
2304593-04 (Soil)

Summit Scientific

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

Calcium	67.5	0.0555	mg/L dry	1	BGE0081	05/02/23	05/03/23	EPA 6020B
Magnesium	12.2	0.0555	"	"	"	"	"	"
Sodium	4.71	0.0555	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.139	0.00100		units	1	BGE0145	05/04/23	05/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.2			%	1	BGE0070	05/02/23	05/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.204	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: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.07			pH Units	1	BGE0107	05/03/23	05/03/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

PWVN01@4'
2304593-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0033	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: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		100 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0034	"	05/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		83.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

PWVN01@4'
2304593-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGD0953	04/28/23	05/03/23	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: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		42.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0122	0.0100		mg/L	1	BGE0042	05/02/23	05/03/23	EPA 6020B	

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

Date Sampled: **04/24/23 00:00**

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

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

PWVN01@4'
2304593-05 (Soil)

Summit Scientific

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

Calcium	62.8	0.0568	mg/L dry	1	BGE0081	05/02/23	05/03/23	EPA 6020B
Magnesium	6.25	0.0568	"	"	"	"	"	"
Sodium	1.15	0.0568	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0370	0.00100		units	1	BGE0145	05/04/23	05/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0			%	1	BGE0070	05/02/23	05/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.219	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: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.44			pH Units	1	BGE0107	05/03/23	05/03/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

PWVB01@5.5'
2304593-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGE0033	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	0.015	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	0.0091	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0034	"	05/02/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

PWVB01@5.5'
2304593-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGD0953	04/28/23	05/03/23	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	0.00706	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.0120	0.00500		"	"	"	"	"	"	

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		75.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0246	0.0100		mg/L	1	BGE0042	05/02/23	05/03/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/24/23 00:00**

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

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

PWVB01@5.5'
2304593-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.477	0.233		mg/kg dry	1	BGE0448	05/12/23	05/14/23	EPA 6020B	
Barium	24.9	0.466		"	"	"	"	"	"	
Cadmium	ND	0.233		"	"	"	"	"	"	
Copper	1.79	0.466		"	"	"	"	"	"	
Lead	3.71	0.233		"	"	"	"	"	"	
Nickel	1.34	0.466		"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	
Silver	ND	0.0233		"	"	"	"	"	"	
Zinc	6.88	0.466		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 04/24/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGE0396	05/11/23	05/12/23	EPA 7196A	

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

Date Sampled: 04/24/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.4	0.0583		mg/L dry	1	BGE0081	05/02/23	05/03/23	EPA 6020B	
Magnesium	5.56	0.0583		"	"	"	"	"	"	
Sodium	2.78	0.0583		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 04/24/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.105	0.00100		units	1	BGE0145	05/04/23	05/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

PWVB01@5.5'
2304593-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	85.8			%	1	BGE0070	05/02/23	05/02/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.442	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: **04/24/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	6.98			pH Units	1	BGE0107	05/03/23	05/03/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

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 BGE0033 - EPA 5030 Soil MS

Blank (BGE0033-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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

LCS (BGE0033-BS1)

Prepared & Analyzed: 05/01/23

Benzene	0.0839	0.0020	mg/kg	0.100		83.9	70-130			
Toluene	0.0912	0.0050	"	0.100		91.2	70-130			
Ethylbenzene	0.110	0.0050	"	0.100		110	70-130			
m,p-Xylene	0.218	0.010	"	0.200		109	70-130			
o-Xylene	0.101	0.0050	"	0.100		101	70-130			
1,2,4-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.114	0.0050	"	0.100		114	70-130			
Naphthalene	0.0938	0.0038	"	0.100		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0400		91.0	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		102	50-150			

Matrix Spike (BGE0033-MS1)

Source: 2304589-01

Prepared & Analyzed: 05/01/23

Benzene	0.0814	0.0020	mg/kg	0.100	ND	81.4	70-130			
Toluene	0.0903	0.0050	"	0.100	ND	90.3	70-130			
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
m,p-Xylene	0.216	0.010	"	0.200	ND	108	70-130			
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130			
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130			
1,3,5-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130			
Naphthalene	0.0950	0.0038	"	0.100	ND	95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.0	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

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 BGE0033 - EPA 5030 Soil MS

Matrix Spike Dup (BGE0033-MSD1)	Source: 2304589-01			Prepared & Analyzed: 05/01/23						
Benzene	0.0843	0.0020	mg/kg	0.100	ND	84.3	70-130	3.59	30	
Toluene	0.0947	0.0050	"	0.100	ND	94.7	70-130	4.80	30	
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	0.467	30	
m,p-Xylene	0.218	0.010	"	0.200	ND	109	70-130	0.914	30	
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130	0.973	30	
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130	0.213	30	
1,3,5-Trimethylbenzene	0.115	0.0050	"	0.100	ND	115	70-130	1.77	30	
Naphthalene	0.104	0.0038	"	0.100	ND	104	70-130	9.36	30	
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400		98.1	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGE0034 - EPA 3550A

Blank (BGE0034-BLK1)

Prepared & Analyzed: 05/01/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.4		"	12.5		83.5	30-150			

LCS (BGE0034-BS1)

Prepared & Analyzed: 05/01/23

C10-C28 (DRO)	564	50	mg/kg	500		113	70-130			
Surrogate: o-Terphenyl	10.4		"	12.5		83.6	30-150			

Matrix Spike (BGE0034-MS1)

Source: 2304589-01

Prepared & Analyzed: 05/01/23

C10-C28 (DRO)	550	50	mg/kg	500	15.1	107	70-130			
Surrogate: o-Terphenyl	10.5		"	12.5		84.4	30-150			

Matrix Spike Dup (BGE0034-MSD1)

Source: 2304589-01

Prepared & Analyzed: 05/01/23

C10-C28 (DRO)	544	50	mg/kg	500	15.1	106	70-130	1.18	20	
Surrogate: o-Terphenyl	10.5		"	12.5		84.0	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0953 - EPA 5030 Soil MS

Blank (BGD0953-BLK1)

Prepared: 04/28/23 Analyzed: 05/02/23

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	0.0310		"	0.0333		92.9	40-150			
Surrogate: Fluoranthene-d10	0.0316		"	0.0333		94.7	40-150			

LCS (BGD0953-BS1)

Prepared: 04/28/23 Analyzed: 05/02/23

Acenaphthene	0.0264	0.00500	mg/kg	0.0333		79.1	31-137			
Anthracene	0.0263	0.00500	"	0.0333		78.8	30-120			
Benzo (a) anthracene	0.0287	0.00500	"	0.0333		86.1	30-120			
Benzo (a) pyrene	0.0264	0.00500	"	0.0333		79.3	30-120			
Benzo (b) fluoranthene	0.0261	0.00500	"	0.0333		78.2	30-120			
Benzo (k) fluoranthene	0.0290	0.00500	"	0.0333		87.0	30-120			
Chrysene	0.0307	0.00500	"	0.0333		92.0	30-120			
Dibenz (a,h) anthracene	0.0252	0.00500	"	0.0333		75.7	30-120			
Fluoranthene	0.0265	0.00500	"	0.0333		79.4	30-120			
Fluorene	0.0257	0.00500	"	0.0333		77.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0282	0.00500	"	0.0333		84.7	30-120			
Pyrene	0.0305	0.00500	"	0.0333		91.6	35-142			
1-Methylnaphthalene	0.0224	0.00500	"	0.0333		67.2	35-142			
2-Methylnaphthalene	0.0259	0.00500	"	0.0333		77.8	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0229		"	0.0333		68.6	40-150			
Surrogate: Fluoranthene-d10	0.0275		"	0.0333		82.5	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0953 - EPA 5030 Soil MS

Matrix Spike (BGD0953-MS1)

Source: 2304553-01

Prepared: 04/28/23 Analyzed: 05/02/23

Acenaphthene	0.0169	0.00500	mg/kg	0.0333	ND	50.7	31-137		
Anthracene	0.0149	0.00500	"	0.0333	ND	44.8	30-120		
Benzo (a) anthracene	0.0187	0.00500	"	0.0333	ND	56.0	30-120		
Benzo (a) pyrene	0.0172	0.00500	"	0.0333	ND	51.6	30-120		
Benzo (b) fluoranthene	0.0177	0.00500	"	0.0333	ND	53.2	30-120		
Benzo (k) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.7	30-120		
Chrysene	0.0201	0.00500	"	0.0333	ND	60.2	30-120		
Dibenz (a,h) anthracene	0.0173	0.00500	"	0.0333	ND	51.8	30-120		
Fluoranthene	0.0168	0.00500	"	0.0333	ND	50.3	30-120		
Fluorene	0.0156	0.00500	"	0.0333	ND	46.7	30-120		
Indeno (1,2,3-cd) pyrene	0.0197	0.00500	"	0.0333	ND	59.2	30-120		
Pyrene	0.0206	0.00500	"	0.0333	ND	61.9	35-142		
1-Methylnaphthalene	0.0146	0.00500	"	0.0333	ND	43.8	15-130		
2-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	42.0	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0137		"	0.0333		41.2	40-150		
Surrogate: Fluoranthene-d10	0.0169		"	0.0333		50.6	40-150		

Matrix Spike Dup (BGD0953-MSD1)

Source: 2304553-01

Prepared: 04/28/23 Analyzed: 05/02/23

Acenaphthene	0.0158	0.00500	mg/kg	0.0333	ND	47.5	31-137	6.56	30
Anthracene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	13.6	30
Benzo (a) anthracene	0.0194	0.00500	"	0.0333	ND	58.2	30-120	3.92	30
Benzo (a) pyrene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	0.566	30
Benzo (b) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.6	30-120	3.12	30
Benzo (k) fluoranthene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	10.2	30
Chrysene	0.0209	0.00500	"	0.0333	ND	62.7	30-120	3.98	30
Dibenz (a,h) anthracene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	9.82	30
Fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	0.865	30
Fluorene	0.0146	0.00500	"	0.0333	ND	43.9	30-120	6.10	30
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	11.0	30
Pyrene	0.0228	0.00500	"	0.0333	ND	68.3	35-142	9.79	30
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.8	15-130	6.52	50
2-Methylnaphthalene	0.0144	0.00500	"	0.0333	ND	43.3	15-130	3.09	50
Surrogate: 2-Methylnaphthalene-d10	0.0141		"	0.0333		42.2	40-150		
Surrogate: Fluoranthene-d10	0.0149		"	0.0333		44.8	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

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

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

Batch BGE0042 - EPA 3050B

Blank (BGE0042-BLK1)

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

Boron ND 0.0100 mg/L

LCS (BGE0042-BS1)

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

Boron 5.94 0.0100 mg/L 5.00 119 80-120

Duplicate (BGE0042-DUP1)

Source: 2304593-01

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

Boron 0.0522 0.0100 mg/L 0.0143 114 20 QR-03

Matrix Spike (BGE0042-MS1)

Source: 2304593-01

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

Boron 3.35 0.0100 mg/L 5.00 0.0143 66.6 75-125 QM-05

Matrix Spike Dup (BGE0042-MSD1)

Source: 2304593-01

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

Boron 3.13 0.0100 mg/L 5.00 0.0143 62.3 75-125 6.64 25 QM-05

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGE0448 - EPA 3050B

Blank (BGE0448-BLK1)

Prepared: 05/12/23 Analyzed: 05/14/23

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

LCS (BGE0448-BS1)

Prepared: 05/12/23 Analyzed: 05/14/23

Arsenic	35.2	0.200	mg/kg wet	40.0	88.0	80-120
Barium	39.3	0.400	"	40.0	98.2	80-120
Cadmium	1.69	0.200	"	2.00	84.6	80-120
Copper	37.2	0.400	"	40.0	93.1	80-120
Lead	21.4	0.200	"	20.0	107	80-120
Nickel	36.6	0.400	"	40.0	91.6	80-120
Selenium	3.84	0.260	"	4.00	96.0	80-120
Silver	1.79	0.0200	"	2.00	89.4	80-120
Zinc	36.0	0.400	"	40.0	89.9	80-120

Duplicate (BGE0448-DUP1)

Source: 2304593-06

Prepared: 05/12/23 Analyzed: 05/14/23

Arsenic	0.473	0.233	mg/kg dry	0.477	0.884	20
Barium	27.7	0.466	"	24.9	10.6	20
Cadmium	0.0518	0.233	"	0.0499	3.67	20
Copper	1.77	0.466	"	1.79	1.34	20
Lead	4.19	0.233	"	3.71	12.3	20
Nickel	1.27	0.466	"	1.34	5.58	20
Selenium	ND	0.260	"	ND		20
Silver	0.00466	0.0233	"	0.00700	40.0	20
Zinc	6.71	0.466	"	6.88	2.47	20

QM-01

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGE0448 - EPA 3050B

Matrix Spike (BGE0448-MS1)		Source: 2304593-06			Prepared: 05/12/23 Analyzed: 05/14/23					
Arsenic	18.5	0.233	mg/kg dry	46.6	0.477	38.7	75-125			QM-07
Barium	51.5	0.466	"	46.6	24.9	57.1	75-125			QM-07
Cadmium	1.23	0.233	"	2.33	0.0499	50.7	75-125			QM-07
Copper	20.6	0.466	"	46.6	1.79	40.3	75-125			QM-07
Lead	17.3	0.233	"	23.3	3.71	58.3	75-125			QM-07
Nickel	20.2	0.466	"	46.6	1.34	40.4	75-125			QM-07
Selenium	3.97	0.260	"	4.66	ND	85.0	75-125			
Silver	1.38	0.0233	"	2.33	0.00700	58.8	75-125			QM-07
Zinc	25.2	0.466	"	46.6	6.88	39.3	75-125			QM-07

Matrix Spike Dup (BGE0448-MSD1)		Source: 2304593-06			Prepared: 05/12/23 Analyzed: 05/14/23					
Arsenic	18.7	0.233	mg/kg dry	46.6	0.477	39.1	75-125	1.06	25	QM-07
Barium	53.7	0.466	"	46.6	24.9	61.8	75-125	4.14	25	QM-07
Cadmium	1.57	0.233	"	2.33	0.0499	65.2	75-125	24.2	25	QM-07
Copper	20.7	0.466	"	46.6	1.79	40.5	75-125	0.432	25	QM-07
Lead	17.2	0.233	"	23.3	3.71	58.0	75-125	0.400	25	QM-07
Nickel	20.2	0.466	"	46.6	1.34	40.5	75-125	0.0716	25	QM-07
Selenium	3.98	0.260	"	4.66	ND	85.4	75-125	0.387	25	
Silver	1.48	0.0233	"	2.33	0.00700	63.0	75-125	6.93	25	QM-07
Zinc	25.5	0.466	"	46.6	6.88	40.0	75-125	1.41	25	QM-07

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGE0396 - 3060A Mod

Blank (BGE0396-BLK1)

Prepared: 05/11/23 Analyzed: 05/12/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGE0396-BS1)

Prepared: 05/11/23 Analyzed: 05/12/23

Chromium, Hexavalent 23.4 0.30 mg/kg wet 25.0 93.6 80-120

Duplicate (BGE0396-DUP1)

Source: 2305202-02

Prepared: 05/11/23 Analyzed: 05/12/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGE0396-MS1)

Source: 2305202-02

Prepared: 05/11/23 Analyzed: 05/12/23

Chromium, Hexavalent 24.3 0.30 mg/kg dry 26.2 ND 92.6 75-125

Matrix Spike Dup (BGE0396-MSD1)

Source: 2305202-02

Prepared: 05/11/23 Analyzed: 05/12/23

Chromium, Hexavalent 23.7 0.30 mg/kg dry 26.2 ND 90.4 75-125 2.40 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]

Project Manager: Paul Henehan

Reported:

05/16/23 10:49

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

Summit Scientific

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

Batch 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

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

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

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

Batch BGE0014 - General Preparation

Duplicate (BGE0014-DUP1)		Source: 2304551-01			Prepared & Analyzed: 05/01/23						
% Solids	89.2		%		89.2			0.0467		20	

Batch BGE0070 - General Preparation

Duplicate (BGE0070-DUP1)		Source: 2304593-03			Prepared & Analyzed: 05/02/23						
% Solids	92.1		%		90.8			1.38		20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

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

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

Batch 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: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

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

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

Batch 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: HSR - Sells-64N6SW 31SWSW

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/16/23 10:49

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-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference