

# **FREMONT ENVIRONMENTAL INC.**

June 24, 2024

Mr. James Hix  
Colorado ECMC OWP  
1120 Lincoln Street, Suite 801  
Denver, CO 80203

Subject: **Wellhead Closure Data Submittal**  
Springdale Storage 1 (OWP)  
API # 05-075-05869  
NENW Sec. 15, T8N, R53W Meridian 6  
Logan County, Colorado  
Fremont Project No. C024-113  
Remediation # 35022

Dear Mr. Hix:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted wellhead decommissioning sampling activities associated with the Springdale Partners LLC, Springdale Storage 1 (OWP) wellhead. Details of the Springdale Storage 1 (OWP) wellhead abandonment are documented in the attached Closure Report. Groundwater was not encountered.

Inorganic impacts were observed above ECMC's Table 915-1 SSLs at the wellhead in the form of pH, arsenic and barium. Background sample collected from the site also exhibited elevated pH and arsenic. Additional background sampling may be warranted to delineate inorganic exceedances.

The flow line was abandoned in place. Photo documentation is included in the wellhead closure report. Please contact me at (720) 252-7191 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

**FREMONT ENVIRONMENTAL INC.**



Nick Larimer  
Project Manager

Attachments:

Facility Closure Checklist  
Tables 1-4  
Figures  
Photos  
Laboratory Reports

**1759 REDWING LANE, BROOMFIELD, CO 80020  
(720) 252-7191 - DIRECT**

Wellhead Closure Checklist						
COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form						
Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure
						Partially Buried Vault Closure
Site Name & COGCC Facility Number:		Date:				Remediation Project #:
Associated Wells:		Age of Site:				Number of Photos Attached:
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)					Estimated Facility Size (acres):	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)						
USCS Soil Type:				Estimated Depth to Groundwater:		
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
Wellhead(s)						
Well API						
Age						
Condition of surface around wellhead						
PID Readings						
Condition of subsurface (staining present)						
PID Readings						
Sample taken?						
Location/Sample ID#						
Photo Number(s)						
Other observations regarding wellheads:						
Summary						
Was impacted soil identified?						
No		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards		
Total number of samples field screened:				Total number of samples collected:		
Highest PID Reading:				Total number of samples submitted to lab for analysis:		
If more than 10 cubic yards of impacted soil were observed:						
Vertical extent:				Estimated spill volume:		
Lateral extent:				Volume of soil removed:		
Is additional investigation required?						
Was groundwater encountered during the investigation?						
No		Yes - not impacted or in contact with impacted soils		Yes - groundwater impacted and/or in contact with impacted soils		
Measured depth to groundwater:				Was remedial groundwater removal conducted?      Yes      No		
Date Groundwater was encountered:				Commencement date of removal:		
Sheen on groundwater?		Yes      No		Volume of groundwater removed prior to sampling:		
Free product observed?		Yes      No		Volume of groundwater removed post sampling:		
Total number of samples collected:				Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:						

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**COLORADO ENERGY AND CARBON MANAGEMENT COMMISSION (OWP)**  
**SPRINGDALE STORAGE 1 (OWP), LOGAN COUNTY, COLORADO**  
**REM # 35022**

Sample ID	Sample Date	Depth (ft)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
BKG-4	5/15/2024	4	40.6659134	-103.2891228	0.9	0
E-Wall-4	5/15/2024	4	40.6657788	-103.2893772	0.8	0
N-wall-4	5/15/2024	4	40.6657917	-103.2894018	0.8	0
W-wall-4	5/15/2024	4	40.6657755	-103.2894203	0.9	0
S-wall-4	5/15/2024	4	40.6657628	-103.2894032	NA	0
Floor-7	5/15/2024	7	40.6657778	-103.2894036	0.8	0

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

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

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

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

= Material excavated and transported off site for disposal.

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
COLORADO ENERGY AND CARBON MANAGEMENT COMMISSION (OWP)  
SPRINGDALE STORAGE 1 (OWP), LOGAN COUNTY, COLORADO  
REM # 35022

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FLOOR-7	5/15/2024	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
N-WALL-4	5/15/2024	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
W-WALL-4	5/15/2024	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50

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

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

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

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

NA - Not analyzed

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

= Material excavated and transported off site for disposal.

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
COLORADO ENERGY AND CARBON MANAGEMENT COMMISSION (OWP)  
SPRINGDALE STORAGE 1 (OWP), LOGAN COUNTY, COLORADO  
REM # 35022

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FLOOR-7	5/15/2024	7	<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
N-WALL-4	5/15/2024	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
W-WALL-4	5/15/2024	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

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

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

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

NA - Not analyzed

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

  = Material excavated and transported off site for disposal.

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**COLORADO ENERGY AND CARBON MANAGEMENT COMMISSION (OWP)**  
**SPRINGDALE STORAGE 1 (OWP), LOGAN COUNTY, COLORADO**  
**REM # 35022**

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FLOOR-7	5/15/2024	7	9.02	0.139	0.173	<2.00
N-WALL-4	5/15/2024	4	8.28	0.478	1.12	<2.00
W-WALL-4	5/15/2024	4	9.40	0.226	0.677	<2.00
BKG-4	5/15/2024	4	9.23	0.171	0.0849	<2.00
Maximum Background Concentration			9.23	0.171	0.0849	<2.00
Average Background Concentration			9.23	0.171	0.0849	<2.00

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

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

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

= Material excavated and transported off site for disposal.

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
COLORADO ENERGY AND CARBON MANAGEMENT COMMISSION (OWP)  
SPRINGDALE STORAGE 1 (OWP), LOGAN COUNTY, COLORADO  
REM # 35022

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FLOOR-7	5/15/2024	7	1.60	52.0	<0.200	*<0.30	3.19	4.10	3.49	<0.260	<0.0200	14.4
N-WALL-4	5/15/2024	4	2.54	208	0.214	*<0.30	5.77	6.97	6.65	<0.260	0.0289	25.7
W-WALL-4	5/15/2024	4	1.71	42.6	<0.200	*<0.30	2.38	3.29	2.84	<0.260	<0.0200	10.4
BKG-4	5/15/2024	4	1.84	49.6	<0.200	*<0.30	2.62	4.22	3.44	<0.260	<0.0200	11.2
Maximum Background Concentration			1.84	49.6	<0.200	*<0.30	2.62	4.22	3.44	<0.260	<0.0200	11.2
125% Average Background Concentration			2.30	62.0	<0.200	*<0.30	3.28	5.28	4.30	<0.260	<0.0200	14.0

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

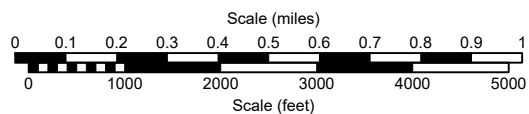
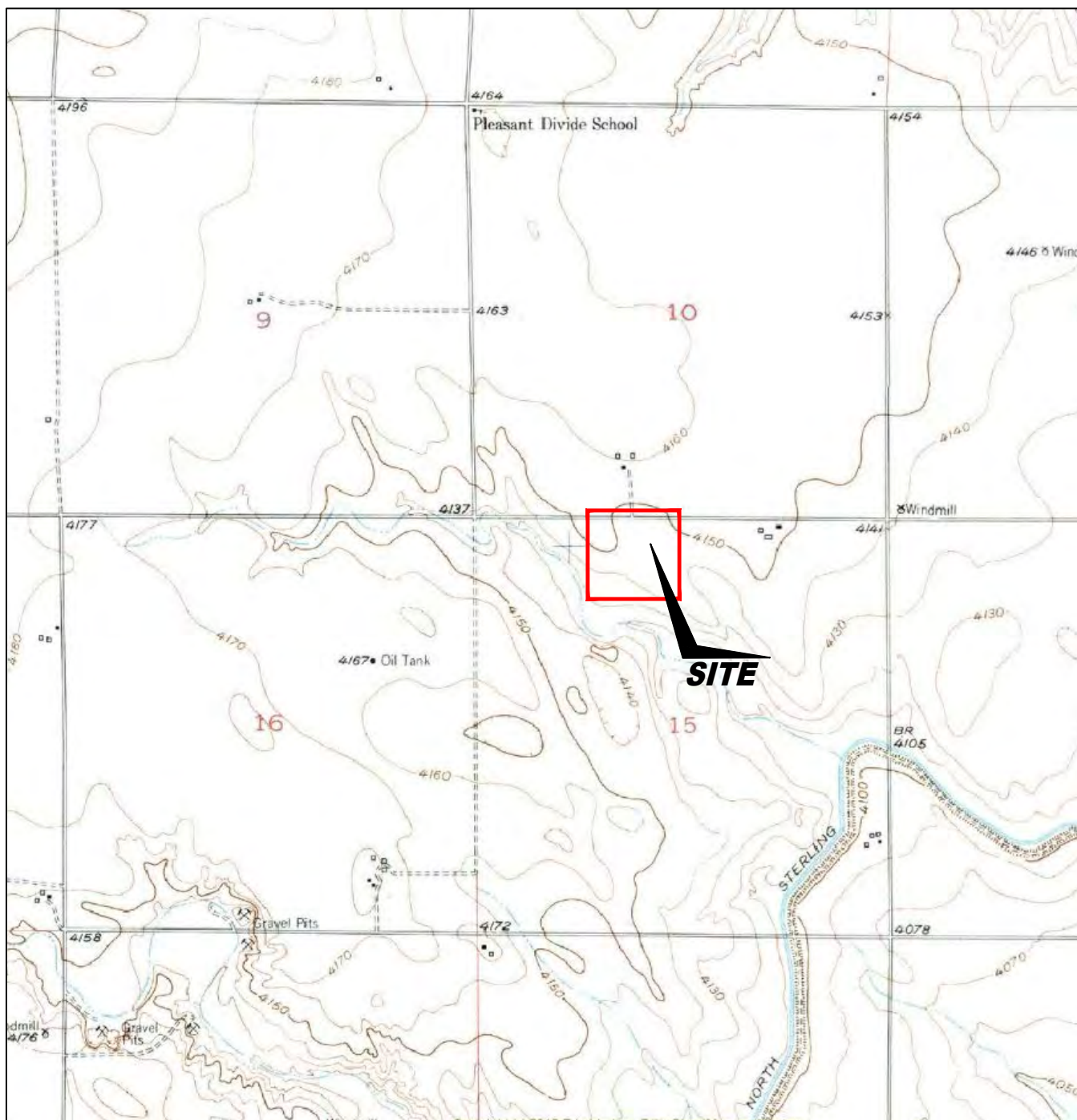
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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

= Material excavated and transported off site for disposal.



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1

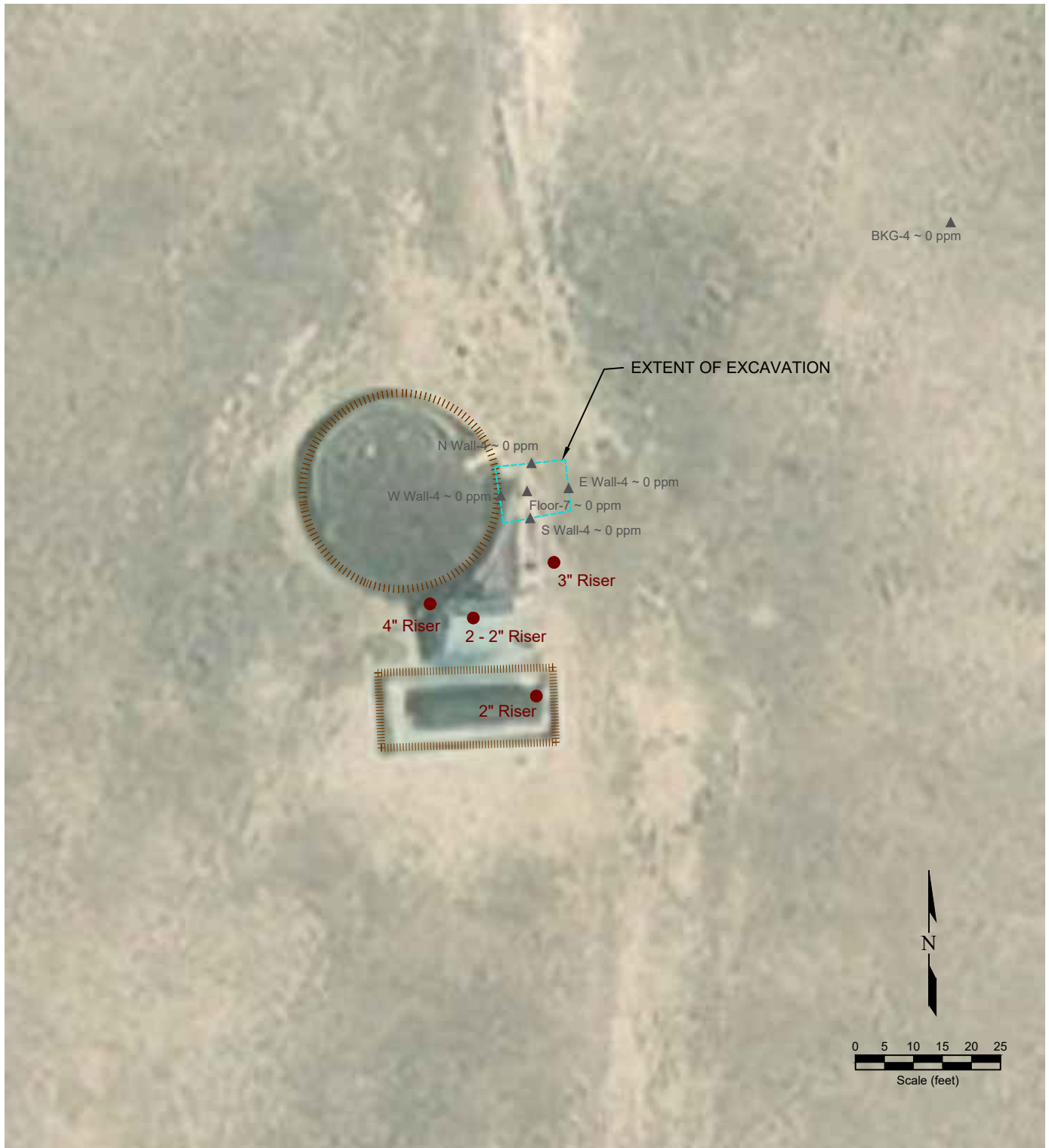
**SITE LOCATION MAP**

**Colorado ECMC OWP**  
**Springdale Storage 1 (OWP)**  
 NENW Sec.15 , T8N, R53W, 6th PM  
 Logan County, Colorado  
 40.665780, °, -103.289400°

Project # <b>C024.113</b>	API # <b>05-075-05869</b>	Facility #
Date <b>6/14/24</b>	Remediation # <b>35022</b>	Filename <b>24113T</b>







#### LEGEND

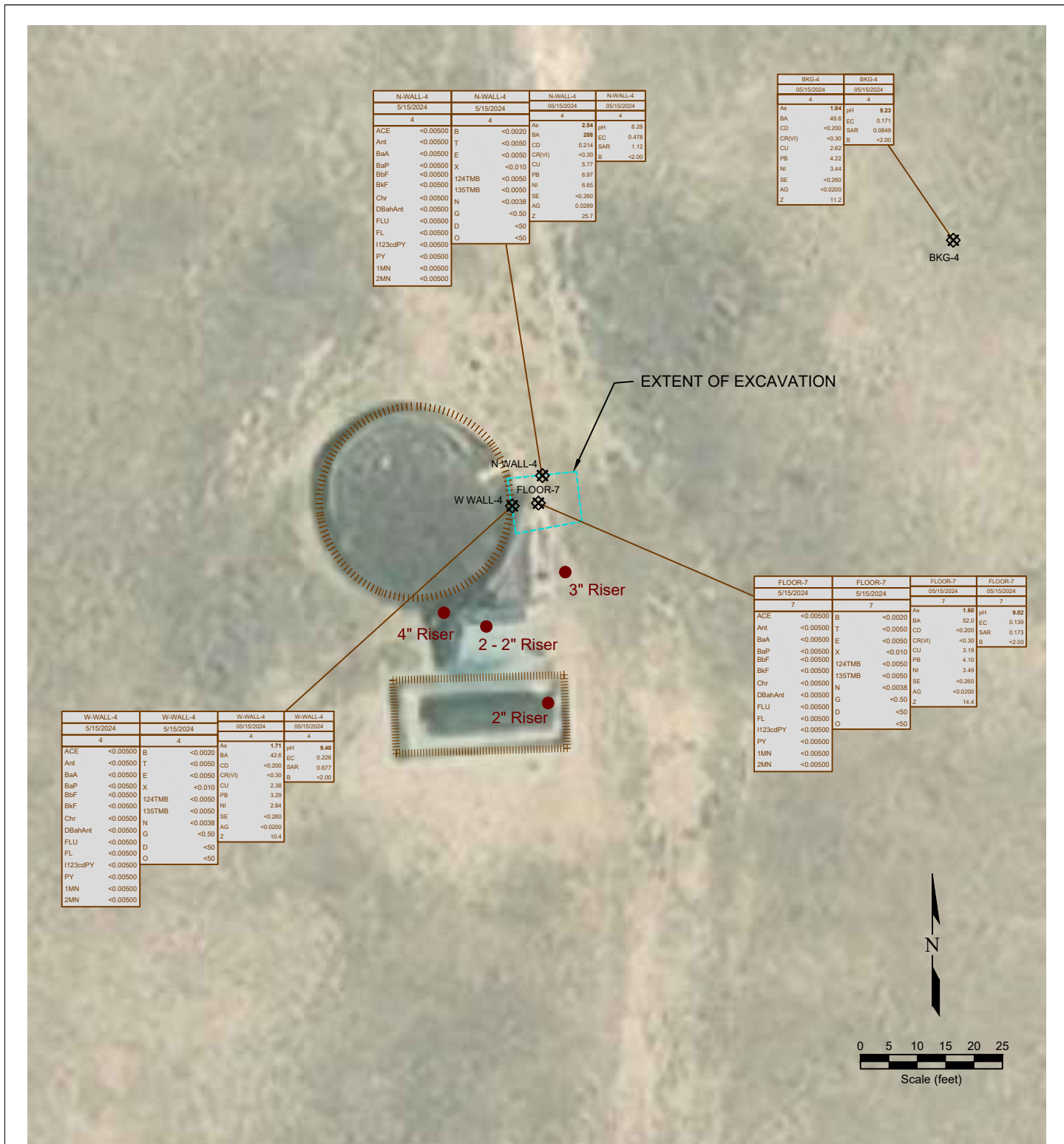
● RISER LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	--- EXTENT OF EXCAVATION
▲ PID READING LOCATION			--- FENCE LINE
			CONTAINMENT BERM
			--- CONTAINMENT WALL

Figure 2  
SITE MAP

**Colorado ECMC OWP**  
**Springdale Storage 1 (OWP)**  
 NENW Sec.15 , T8N, R53W, 6th PM  
 Logan County, Colorado  
 40.665780,°, -103.289400°

Project No. <b>C024.113</b>	API # <b>05-075-05869</b>	Facility #
Date <b>6/25/24</b>	Remediation # <b>35022</b>	Filename <b>24113Q</b>





LEGEND			
●	RISER LOCATION	○	ABOVE GROUND STORAGE TANK
⊗	SOIL SAMPLE LOCATION	FORMER FACILITY	--- FENCE LINE
	CONTAINMENT BERM	---	CONTAINMENT WALL
NOT ANALYZED			

SAMPLE ID	DATE	SAMPLE ID	DATE
ACE	<0.00500	ANTRACENE (mg/kg)	
Ant	<0.00500	ANTHRACENE (mg/kg)	
BaA	<0.00500	BENZO (A) ANTHRAcene (mg/kg)	
BaP	<0.00500	BENZO (A) PYRENE (mg/kg)	
BbF	<0.00500	BENZO (B) FLUORANTHENE (mg/kg)	
BkF	<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	FLUORANTHENE (mg/kg)	
FL	<0.00500	FLUORENE (mg/kg)	
1123cdPY	<0.00500	INSENO (1,2,3-CD) PYRENE (mg/kg)	
PY	<0.00500	PYRENE (mg/kg)	
1MN	<0.00500	1-METHYLNAPHTHALENE (mg/kg)	
2MN	<0.00500	2-METHYLNAPHTHALENE (mg/kg)	

SAMPLE ID	DATE	SAMPLE ID	DATE
As	<0.01	ARSENIC (mg/kg)	
BA	<0.01	BARIUM (mg/kg)	
CD	<0.01	CADMIUM (mg/kg)	
CR(VI)	<0.05	CHROMIUM (mg/kg)	
CU	<0.01	COPPER (mg/kg)	
LEAD	<0.05	LEAD (mg/kg)	
NI	<0.05	NICKEL (mg/kg)	
SE	<0.5	SELENIUM (mg/kg)	
AG	<0.05	SILVER (mg/kg)	
Z	<0.05	ZINC (mg/kg)	

**Figure 3**

**SOIL CHEMISTRY MAP**

**Colorado ECMC OWP**

**Springdale Storage 1 (OWP)**

**NENW Sec.15 , T8N, R53W, 6th PM**

**Logan County, Colorado**

**40.665780° , -103.289400°**

Project No. <b>C024.113</b>	API # <b>05-075-05869</b>	Facility #
Date <b>6/25/24</b>	Remediation # <b>35022</b>	Filename <b>24113Q</b>





***Description:***

Springdale Storage 1 (OWP) Wellhead with sample location - facing southeast



## Photo Log



***Description:***

Springdale Storage 1 (OWP) - facing east with sample locations- no staining or indication of failure





***Description:***

Springdale Storage 1 Wellhead (OWP) - Facing northwest - note no staining or signs of failure. Flow line abandoned in place.





***Description:***

Springdale Storage 1 (OWP) - Risers to southwest of wellhead location remained in place at time of cut and cap.

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 11, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Springdale 1 (OWP)  
Work Order #2405221

Enclosed are the results of analyses for samples received by Summit Scientific on 05/15/24 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLOOR-7	2405221-01	Soil	05/15/24 00:00	05/15/24 15:20
N-WALL-4	2405221-02	Soil	05/15/24 00:00	05/15/24 15:20
W-WALL-4	2405221-03	Soil	05/15/24 00:00	05/15/24 15:20
BKG-4	2405221-04	Soil	05/15/24 00:00	05/15/24 15:20

Summit Scientific

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



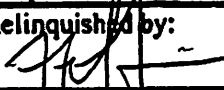
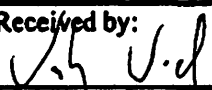
# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2405221	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager:	Company: Fremont	
Address: 8305 6th St.,	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: SPRINGDALE 1 (COWP)	PO/Billing Codes:	
Sampler Name: Nick	Project Number: C024-113	Contact:	

					Preservative				Matrix				Analysis Requested						Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEX, Naphthalene, TMIBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	Metals (915-1)		
1	FLOOR - 7	2/15		3			X			X			X	X	X	X		X		
2	N-WALL - 4	2/15		3			X			X			X	X	X	X		X		
3	W-WALL - 4	2/15		3			X			X			X	X	X	X		X		
4	BKG - 4	2/15		2			X			X						X		X		
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15	11																			

Relinquished by: 	Date/Time: 5/15/24 15:20	Received by: 	Date/Time: 5/15/24 15:20	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 5.7	Corrected Temperature:	IR gun #: 2	HNO3 lot #:			

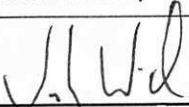
S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2405221Client: Fremont Client Project ID: Springdale 1 (OWP)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 5.7Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Sample Lines
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
  
 Custodian Printed Name

5/15/24 15:20  
 Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**FLOOR-7**  
**2405221-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHE0513	05/16/24	05/17/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0256	64.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0518	05/16/24	05/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.6	85.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**FLOOR-7**  
**2405221-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0510	05/16/24	05/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0242	72.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0233	69.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0514	05/16/24	06/08/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/15/24 00:00**

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

Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**FLOOR-7**  
**2405221-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.60	0.200	mg/kg dry	1	BHE0535	05/16/24	05/21/24	EPA 6020B
Barium	52.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.19	0.400	"	"	"	"	"	"
Lead	4.10	0.200	"	"	"	"	"	"
Nickel	3.49	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	14.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0537	05/16/24	05/16/24	EPA 7196A	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	105	0.0500	mg/L dry	1	BHE0526	05/16/24	05/26/24	EPA 6020B	
Magnesium	10.3	0.0500	"	"	"	"	"	"	
Sodium	6.93	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.173	0.00100	units	1	BHE0826	05/28/24	05/28/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Wellington CO, 80549

Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**FLOOR-7**  
**2405221-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.7		%	1	BHE0529	05/16/24	05/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.139	0.0100	mmhos/cm	1	BHE0528	05/16/24	05/21/24	EPA 120.1	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.02		pH Units	1	BHE0527	05/16/24	05/21/24	EPA 9045D	

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Fremont Environmental  
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Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**N-WALL-4**  
**2405221-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHE0513	05/16/24	05/17/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0288	72.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0518	05/16/24	05/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.40	67.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**N-WALL-4**  
**2405221-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0510	05/16/24	05/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0255	76.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0250	75.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0514	05/16/24	06/08/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/15/24 00:00**

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

Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**N-WALL-4**  
**2405221-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.54	0.200	mg/kg dry	1	BHE0535	05/16/24	05/21/24	EPA 6020B
Barium	208	0.400	"	"	"	"	"	"
Cadmium	0.214	0.200	"	"	"	"	"	"
Copper	5.77	0.400	"	"	"	"	"	"
Lead	6.97	0.200	"	"	"	"	"	"
Nickel	6.65	0.400	"	"	"	"	"	"
Silver	0.0289	0.0200	"	"	"	"	"	"
Zinc	25.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0537	05/16/24	05/16/24	EPA 7196A	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.6	0.0500	mg/L dry	1	BHE0526	05/16/24	05/26/24	EPA 6020B	
Magnesium	10.9	0.0500	"	"	"	"	"	"	
Sodium	37.9	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.12	0.00100	units	1	BHE0826	05/28/24	05/28/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/15/24 00:00**

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

Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**N-WALL-4**  
**2405221-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	94.7	%	1	BHE0529	05/16/24	05/16/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.478</b>	0.0100	mmhos/cm	1	BHE0528	05/16/24	05/21/24	EPA 120.1	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.28</b>		pH Units	1	BHE0527	05/16/24	05/21/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**W-WALL-4**  
**2405221-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHE0513	05/16/24	05/17/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0261	65.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0518	05/16/24	05/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.6	100 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**W-WALL-4**  
**2405221-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0510	05/16/24	05/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0249	74.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0231	69.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0514	05/16/24	06/08/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**W-WALL-4**  
**2405221-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.71	0.200	mg/kg dry	1	BHE0535	05/16/24	05/21/24	EPA 6020B
Barium	42.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.38	0.400	"	"	"	"	"	"
Lead	3.29	0.200	"	"	"	"	"	"
Nickel	2.84	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0537	05/16/24	05/16/24	EPA 7196A	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	273	0.0500	mg/L dry	1	BHE0526	05/16/24	05/26/24	EPA 6020B	
Magnesium	21.7	0.0500	"	"	"	"	"	"	
Sodium	43.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.677	0.00100	units	1	BHE0826	05/28/24	05/28/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**W-WALL-4**  
**2405221-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BHE0529	05/16/24	05/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.226	0.0100	mmhos/cm	1	BHE0528	05/16/24	05/21/24	EPA 120.1	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.40		pH Units	1	BHE0527	05/16/24	05/21/24	EPA 9045D	

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Wellington CO, 80549

Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**BKG-4**  
**2405221-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHE0514	05/16/24	06/08/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.84	0.200	mg/kg dry	1	BHE0535	05/16/24	05/21/24	EPA 6020B	
Barium	49.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.62	0.400	"	"	"	"	"	"	
Lead	4.22	0.200	"	"	"	"	"	"	
Nickel	3.44	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0537	05/16/24	05/16/24	EPA 7196A	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	110	0.0500	mg/L dry	1	BHE0526	05/16/24	05/26/24	EPA 6020B	
Magnesium	25.4	0.0500	"	"	"	"	"	"	
Sodium	3.80	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**BKG-4**  
**2405221-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0849	0.00100	units	1	BHE0826	05/28/24	05/28/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.7		%	1	BHE0529	05/16/24	05/16/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.171	0.0100	mmhos/cm	1	BHE0528	05/16/24	05/21/24	EPA 120.1	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.23		pH Units	1	BHE0527	05/16/24	05/21/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

## 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 BHE0513 - EPA 5030 Soil MS

##### Blank (BHE0513-BLK1)

Prepared & Analyzed: 05/16/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0300		"	0.0400		75.0	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.3	50-150			

##### LCS (BHE0513-BS1)

Prepared & Analyzed: 05/16/24

Benzene	0.0991	0.0020	mg/kg	0.100		99.1	70-130			
Toluene	0.126	0.0050	"	0.100		126	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.253	0.010	"	0.200		127	70-130			
o-Xylene	0.123	0.0050	"	0.100		123	70-130			
1,2,4-Trimethylbenzene	0.117	0.0050	"	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.121	0.0050	"	0.100		121	70-130			
Naphthalene	0.0980	0.0038	"	0.100		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0279		"	0.0400		69.8	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	50-150			

##### Matrix Spike (BHE0513-MS1)

Source: 2405210-01

Prepared & Analyzed: 05/16/24

Benzene	0.0927	0.0020	mg/kg	0.100	ND	92.7	70-130			
Toluene	0.113	0.0050	"	0.100	ND	113	70-130			
Ethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130			
m,p-Xylene	0.221	0.010	"	0.200	ND	111	70-130			
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130			
1,2,4-Trimethylbenzene	0.0884	0.0050	"	0.100	ND	88.4	70-130			
1,3,5-Trimethylbenzene	0.0926	0.0050	"	0.100	ND	92.6	70-130			
Naphthalene	0.0747	0.0038	"	0.100	ND	74.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0293		"	0.0400		73.4	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.3	50-150			

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Fremont Environmental  
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Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**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 BHE0513 - EPA 5030 Soil MS**

Matrix Spike Dup (BHE0513-MSD1)	Source: 2405210-01			Prepared & Analyzed: 05/16/24						
Benzene	0.111	0.0020	mg/kg	0.100	ND	111	70-130	17.8	30	
Toluene	0.129	0.0050	"	0.100	ND	129	70-130	13.2	30	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	11.2	30	
m,p-Xylene	0.250	0.010	"	0.200	ND	125	70-130	12.1	30	
o-Xylene	0.121	0.0050	"	0.100	ND	121	70-130	13.5	30	
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	14.7	30	
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	13.8	30	
Naphthalene	0.0885	0.0038	"	0.100	ND	88.5	70-130	16.9	30	
Surrogate: 1,2-Dichloroethane-d4	0.0310		"	0.0400		77.4	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	50-150			

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Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**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 BHE0518 - EPA 3550A**

**Blank (BHE0518-BLK1)**

Prepared: 05/16/24 Analyzed: 05/18/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.1		"	12.5		89.0	30-150			

**LCS (BHE0518-BS1)**

Prepared: 05/16/24 Analyzed: 05/18/24

C10-C28 (DRO)	422	50	mg/kg	500		84.5	70-130			
Surrogate: o-Terphenyl	14.6		"	12.5		117	30-150			

**Matrix Spike (BHE0518-MS1)**

Source: 2405210-01

Prepared: 05/16/24 Analyzed: 05/18/24

C10-C28 (DRO)	538	50	mg/kg	500	24.3	103	70-130			
Surrogate: o-Terphenyl	10.9		"	12.5		86.9	30-150			

**Matrix Spike Dup (BHE0518-MSD1)**

Source: 2405210-01

Prepared: 05/16/24 Analyzed: 05/18/24

C10-C28 (DRO)	572	50	mg/kg	500	24.3	110	70-130	6.10	20	
Surrogate: o-Terphenyl	13.0		"	12.5		104	30-150			

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Fremont Environmental  
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Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BHE0510 - EPA 5030 Soil MS

##### Blank (BHE0510-BLK1)

Prepared & Analyzed: 05/16/24

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0382	"	0.0333	115	40-150
Surrogate: Fluoranthene-d10	0.0314	"	0.0333	94.3	40-150

##### LCS (BHE0510-BS1)

Prepared & Analyzed: 05/16/24

Acenaphthene	0.0353	0.00500	mg/kg	0.0333	106	31-137
Anthracene	0.0335	0.00500	"	0.0333	101	30-120
Benzo (a) anthracene	0.0309	0.00500	"	0.0333	92.6	30-120
Benzo (a) pyrene	0.0348	0.00500	"	0.0333	104	30-120
Benzo (b) fluoranthene	0.0314	0.00500	"	0.0333	94.2	30-120
Benzo (k) fluoranthene	0.0275	0.00500	"	0.0333	82.4	30-120
Chrysene	0.0351	0.00500	"	0.0333	105	30-120
Dibenz (a,h) anthracene	0.0290	0.00500	"	0.0333	87.0	30-120
Fluoranthene	0.0280	0.00500	"	0.0333	84.1	30-120
Fluorene	0.0327	0.00500	"	0.0333	98.0	30-120
Indeno (1,2,3-cd) pyrene	0.0348	0.00500	"	0.0333	104	30-120
Pyrene	0.0314	0.00500	"	0.0333	94.2	35-142
1-Methylnaphthalene	0.0339	0.00500	"	0.0333	102	35-142
2-Methylnaphthalene	0.0345	0.00500	"	0.0333	104	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0387	"	0.0333	116	40-150
Surrogate: Fluoranthene-d10	0.0308	"	0.0333	92.5	40-150

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Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BHE0510 - EPA 5030 Soil MS**

**Matrix Spike (BHE0510-MS1)**

Source: 2405218-01

Prepared & Analyzed: 05/16/24

Acenaphthene	0.0228	0.00500	mg/kg	0.0333	ND	68.5	31-137		
Anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120		
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	ND	62.1	30-120		
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.7	30-120		
Benzo (b) fluoranthene	0.0210	0.00500	"	0.0333	ND	62.9	30-120		
Benzo (k) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.2	30-120		
Chrysene	0.0230	0.00500	"	0.0333	ND	69.1	30-120		
Dibenz (a,h) anthracene	0.0163	0.00500	"	0.0333	ND	49.0	30-120		
Fluoranthene	0.0197	0.00500	"	0.0333	ND	59.2	30-120		
Fluorene	0.0225	0.00500	"	0.0333	ND	67.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0194	0.00500	"	0.0333	ND	58.2	30-120		
Pyrene	0.0332	0.00500	"	0.0333	ND	99.5	35-142		
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.1	15-130		
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0253		"	0.0333		75.8	40-150		
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.4	40-150		

**Matrix Spike Dup (BHE0510-MSD1)**

Source: 2405218-01

Prepared & Analyzed: 05/16/24

Acenaphthene	0.0201	0.00500	mg/kg	0.0333	ND	60.4	31-137	12.7	30
Anthracene	0.0189	0.00500	"	0.0333	ND	56.7	30-120	14.3	30
Benzo (a) anthracene	0.0179	0.00500	"	0.0333	ND	53.8	30-120	14.3	30
Benzo (a) pyrene	0.0195	0.00500	"	0.0333	ND	58.4	30-120	10.2	30
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.2	30-120	13.1	30
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.9	30-120	7.93	30
Chrysene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	14.5	30
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333	ND	55.2	30-120	11.9	30
Fluoranthene	0.0175	0.00500	"	0.0333	ND	52.4	30-120	12.1	30
Fluorene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	20.6	30
Indeno (1,2,3-cd) pyrene	0.0231	0.00500	"	0.0333	ND	69.2	30-120	17.3	30
Pyrene	0.0322	0.00500	"	0.0333	ND	96.6	35-142	2.90	30
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.1	15-130	14.3	50
2-Methylnaphthalene	0.0197	0.00500	"	0.0333	ND	59.1	15-130	13.5	50
Surrogate: 2-Methylnaphthalene-d10	0.0221		"	0.0333		66.2	40-150		
Surrogate: Fluoranthene-d10	0.0193		"	0.0333		57.8	40-150		

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**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 BHE0514 - EPA 3050B**

**Blank (BHE0514-BLK1)**

Prepared: 05/16/24 Analyzed: 06/07/24

Boron ND 2.00 mg/L

**LCS (BHE0514-BS1)**

Prepared: 05/16/24 Analyzed: 06/07/24

Boron 4.88 2.00 mg/L 5.00 97.6 80-120

**Duplicate (BHE0514-DUP1)**

**Source: 2405218-01**

Prepared: 05/16/24 Analyzed: 06/07/24

Boron 0.0681 2.00 mg/L 0.0923 30.1 20 QR-01

**Matrix Spike (BHE0514-MS1)**

**Source: 2405218-01**

Prepared: 05/16/24 Analyzed: 06/07/24

Boron 5.09 2.00 mg/L 5.04 0.0923 99.1 75-125

**Matrix Spike Dup (BHE0514-MSD1)**

**Source: 2405218-01**

Prepared: 05/16/24 Analyzed: 06/08/24

Boron 5.15 2.00 mg/L 5.04 0.0923 100 75-125 1.10 25

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Wellington CO, 80549

Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**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 BHE0535 - EPA 3050B**

**Blank (BHE0535-BLK1)**

Prepared: 05/16/24 Analyzed: 05/21/24

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

**LCS (BHE0535-BS1)**

Prepared: 05/16/24 Analyzed: 05/21/24

Arsenic	38.0	0.200	mg/kg wet	40.0	95.0	80-120
Barium	35.2	0.400	"	40.0	88.1	80-120
Cadmium	1.82	0.200	"	2.00	90.9	80-120
Copper	39.9	0.400	"	40.0	99.8	80-120
Lead	19.0	0.200	"	20.0	94.9	80-120
Nickel	39.7	0.400	"	40.0	99.3	80-120
Silver	1.85	0.0200	"	2.00	92.7	80-120
Zinc	38.9	0.400	"	40.0	97.3	80-120
Selenium	4.06	0.260	"	4.00	101	80-120

**Duplicate (BHE0535-DUP1)**

Source: 2405218-01

Prepared: 05/16/24 Analyzed: 05/21/24

Arsenic	1.24	0.200	mg/kg dry	1.18	4.50	20	
Barium	58.5	0.400	"	46.5	22.8	20	QR-04
Cadmium	0.122	0.200	"	0.0898	30.0	20	QR-01
Copper	3.21	0.400	"	2.75	15.5	20	
Lead	4.80	0.200	"	3.80	23.3	20	QR-04
Nickel	3.89	0.400	"	3.68	5.60	20	
Silver	0.0151	0.0200	"	0.0125	18.4	20	
Zinc	16.9	0.400	"	13.4	23.1	20	QR-04
Selenium	ND	0.260	"	ND		20	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**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 BHE0535 - EPA 3050B**

Matrix Spike (BHE0535-MS1)		Source: 2405218-01			Prepared: 05/16/24 Analyzed: 05/21/24						
Arsenic	30.2	0.200	mg/kg dry	41.1	1.18	70.6	75-125				QM-07
Barium	103	0.400	"	41.1	46.5	136	75-125				QM-07
Cadmium	2.09	0.200	"	2.05	0.0898	97.6	75-125				
Copper	43.9	0.400	"	41.1	2.75	100	75-125				
Lead	24.2	0.200	"	20.5	3.80	99.3	75-125				
Nickel	44.7	0.400	"	41.1	3.68	99.9	75-125				
Silver	1.94	0.0200	"	2.05	0.0125	94.0	75-125				
Zinc	56.5	0.400	"	41.1	13.4	105	75-125				
Selenium	3.77	0.260	"	4.11	ND	91.8	75-125				

Matrix Spike Dup (BHE0535-MSD1)		Source: 2405218-01			Prepared: 05/16/24 Analyzed: 05/21/24						
Arsenic	30.6	0.200	mg/kg dry	41.1	1.18	71.7	75-125	1.53	25		QM-07
Barium	104	0.400	"	41.1	46.5	139	75-125	1.10	25		QM-07
Cadmium	2.10	0.200	"	2.05	0.0898	97.6	75-125	0.0392	25		
Copper	44.1	0.400	"	41.1	2.75	101	75-125	0.546	25		
Lead	24.2	0.200	"	20.5	3.80	99.3	75-125	0.0459	25		
Nickel	44.6	0.400	"	41.1	3.68	99.7	75-125	0.188	25		
Silver	1.98	0.0200	"	2.05	0.0125	95.7	75-125	1.78	25		
Zinc	56.3	0.400	"	41.1	13.4	104	75-125	0.374	25		
Selenium	3.72	0.260	"	4.11	ND	90.5	75-125	1.40	25		

Post Spike (BHE0535-PS1)		Source: 2405218-01			Prepared: 05/16/24 Analyzed: 05/21/24						
Arsenic	84.5		ug/l	100	2.92	81.5	75-125				
Barium	216		"	100	115	101	75-125				
Cadmium	5.46		"	5.00	0.222	105	75-125				
Copper	115		"	100	6.80	108	75-125				
Lead	61.1		"	50.0	9.39	104	75-125				
Nickel	118		"	100	9.09	109	75-125				
Silver	5.24		"	5.00	0.0310	104	75-125				
Zinc	141		"	100	33.1	108	75-125				
Selenium	10.3		"	10.0	0.0990	102	75-125				

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Project: Springdale 1 (OWP)  
Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**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 BHE0537 - 3060A Mod**

**Blank (BHE0537-BLK1)**

Prepared & Analyzed: 05/16/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHE0537-BS1)**

Prepared & Analyzed: 05/16/24

Chromium, Hexavalent 25.3 0.30 mg/kg wet 25.0 101 80-120

**Duplicate (BHE0537-DUP1)**

**Source: 2405218-01**

Prepared & Analyzed: 05/16/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHE0537-MS1)**

**Source: 2405218-01**

Prepared & Analyzed: 05/16/24

Chromium, Hexavalent 25.9 0.30 mg/kg dry 26.3 ND 98.6 75-125

**Matrix Spike Dup (BHE0537-MSD1)**

**Source: 2405218-01**

Prepared & Analyzed: 05/16/24

Chromium, Hexavalent 25.9 0.30 mg/kg dry 26.3 ND 98.6 75-125 0.00 20

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Fremont Environmental  
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Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**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 BHE0526 - General Preparation**

**Blank (BHE0526-BLK1)**

Prepared: 05/16/24 Analyzed: 05/26/24

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

**LCS (BHE0526-BS1)**

Prepared: 05/16/24 Analyzed: 05/26/24

Calcium	5.72	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.22	0.0500	"	5.00	104	70-130
Sodium	5.54	0.0500	"	5.00	111	70-130

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Fremont Environmental	Project: Springdale 1 (OWP)	
PO Box 1289	Project Number: CO24-113	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	06/11/24 09:21

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

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

Batch BHE0529 - General Preparation

Duplicate (BHE0529-DUP1)	Source: 2405218-01		Prepared & Analyzed: 05/16/24							
% Solids	96.8		%		95.1			1.80	20	

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PO Box 1289  
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Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**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 BHE0528 - General Preparation**

**Blank (BHE0528-BLK1)**

Prepared: 05/16/24 Analyzed: 05/21/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHE0528-BS1)**

Prepared: 05/16/24 Analyzed: 05/21/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BHE0528-DUP1)**

**Source: 2405218-01**

Prepared: 05/16/24 Analyzed: 05/21/24

Specific Conductance (EC) 0.131 0.0100 mmhos/cm 0.132 0.608 20

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henchan

**Reported:**  
06/11/24 09:21

**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 BHE0527 - General Preparation**

**LCS (BHE0527-BS1)**

Prepared: 05/16/24 Analyzed: 05/21/24

pH	9.16	pH Units	9.18	99.8	95-105
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**Duplicate (BHE0527-DUP1)**

**Source: 2405218-01**

Prepared: 05/16/24 Analyzed: 05/21/24

pH	8.60	pH Units	8.67	0.811	20
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113  
Project Manager: Paul Henehan

**Reported:**  
06/11/24 09:21

### Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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