

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 27, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Wells 34F
Work Order #2408217

Enclosed are the results of analyses for samples received by Summit Scientific on 08/20/24 09:00. 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: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-07-2	2408217-01	Soil	08/19/24 00:00	08/20/24 09:00
SS-06	2408217-02	Soil	08/19/24 00:00	08/20/24 09:00
SS-07	2408217-03	Soil	08/19/24 00:00	08/20/24 09:00
SS-08	2408217-04	Soil	08/19/24 00:00	08/20/24 09:00
SS-09	2408217-05	Soil	08/19/24 00:00	08/20/24 09:00
SS-10	2408217-06	Soil	08/19/24 00:00	08/20/24 09:00
SS-11	2408217-07	Soil	08/19/24 00:00	08/20/24 09:00
SS-12	2408217-08	Soil	08/19/24 00:00	08/20/24 09:00
SS-13	2408217-09	Soil	08/19/24 00:00	08/20/24 09:00

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S₂

2408217

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 21

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail: PDC

City/State/Zip:

Phone:

Project Name: WELLS 34F

Sampler Name: HENEHAN

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	GBTEXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	9/15-1 metals	Arsenic	BTEXN + TMBs	TDS, Cl, Su				
1	SS-MU-07-2	8/19/24		2			2			2				✓	✓	✓									
2	SS-06			✓										✓	✓	✓									
3	SS-07			✓										✓	✓	✓									
4	SS-08																✓		✓						
5	SS-09																✓		✓						
6	SS-10																✓		✓						
7	SS-11																✓		✓						
8	SS-12																✓		✓						
9	SS-13																✓		✓						
10																									

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
MA/KE	8/20/24			Same Day — 72 hours —	
SL	8/20/24 0900		8/20/24 0900	24 hours — Standard ✓	
				48 hours —	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: 7.2	
				Samples Intact: Yes No	

S₂

Sample Receipt Checklist

S2 Work Order# 2408217Client: FerrmontClient Project ID: Wells 34FShipped 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)

7.2

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"/>	on 2 CE
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input type="checkbox"/>	<input checked="" 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 checked="" 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): <u>Sample #1 jar was SS-02</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Natalie Tessier
Custodian Printed Name

8/20/24 12:07
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-07-2
2408217-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0597	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0444	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0600	08/21/24	08/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.3	115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-07-2
2408217-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHH0564	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.2 %	40-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/27/24 10:46

SS-06
2408217-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0597	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0437	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	95.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0600	08/21/24	08/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.8	103 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-06
2408217-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHH0564	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0147	44.0 %	40-150		"	"	"	"	

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PO Box 1289
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Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/27/24 10:46

SS-07
2408217-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0597	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0600	08/21/24	08/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.6	101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-07
2408217-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHH0564	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0138	41.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0146	43.8 %	40-150		"	"	"	"	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-08
2408217-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	247	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	58.1	0.0500	"	"	"	"	"	"	
Sodium	7.05	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Sodium Adsorption Ratio	0.105	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	86.1		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	5.06	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

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Fremont Environmental	Project: PDC - Wells 34F	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/27/24 10:46

SS-08
2408217-04 (Soil)

Summit Scientific

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

Date Sampled: 08/19/24 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

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Statistical Review



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-09
2408217-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	287	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	85.2	0.0500	"	"	"	"	"	"	
Sodium	72.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.959	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.01	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-09
2408217-05 (Soil)

Summit Scientific

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.19			pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-10
2408217-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	593	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	67.8	0.0500	"	"	"	"	"	"	
Sodium	62.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.646	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.86	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

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Fremont Environmental	Project: PDC - Wells 34F	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/27/24 10:46

SS-10
2408217-06 (Soil)

Summit Scientific

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

Date Sampled: 08/19/24 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-11
2408217-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	702	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	52.8	0.0500	"	"	"	"	"	"	
Sodium	53.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.528	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.238	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

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Fremont Environmental	Project: PDC - Wells 34F	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/27/24 10:46

SS-11
2408217-07 (Soil)

Summit Scientific

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

Date Sampled: 08/19/24 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-12
2408217-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	184	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	32.7	0.0500	"	"	"	"	"	"	
Sodium	2.69	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0480	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.339	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-12
2408217-08 (Soil)

Summit Scientific

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.13			pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-13
2408217-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.2	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	9.87	0.0500	"	"	"	"	"	"	
Sodium	6.45	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.203	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.219	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

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Fremont Environmental	Project: PDC - Wells 34F	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/27/24 10:46

SS-13
2408217-09 (Soil)

Summit Scientific

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

Date Sampled: 08/19/24 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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 BHH0597 - EPA 5030 Soil MS

Blank (BHH0597-BLK1)

Prepared: 08/21/24 Analyzed: 08/22/24

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	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

LCS (BHH0597-BS1)

Prepared: 08/21/24 Analyzed: 08/22/24

Benzene	0.0992	0.0020	mg/kg	0.100		99.2	70-130			
Toluene	0.0996	0.0050	"	0.100		99.6	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.201	0.010	"	0.200		100	70-130			
o-Xylene	0.102	0.0050	"	0.100		102	70-130			
1,2,4-Trimethylbenzene	0.0984	0.0050	"	0.100		98.4	70-130			
1,3,5-Trimethylbenzene	0.0971	0.0050	"	0.100		97.1	70-130			
Naphthalene	0.0957	0.0038	"	0.100		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0425		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

Matrix Spike (BHH0597-MS1)

Source: 2408217-01

Prepared: 08/21/24 Analyzed: 08/22/24

Benzene	0.0944	0.0020	mg/kg	0.100	ND	94.4	70-130			
Toluene	0.0953	0.0050	"	0.100	ND	95.3	70-130			
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
m,p-Xylene	0.194	0.010	"	0.200	ND	96.9	70-130			
o-Xylene	0.0952	0.0050	"	0.100	ND	95.2	70-130			
1,2,4-Trimethylbenzene	0.0919	0.0050	"	0.100	ND	91.9	70-130			
1,3,5-Trimethylbenzene	0.0933	0.0050	"	0.100	ND	93.3	70-130			
Naphthalene	0.0873	0.0038	"	0.100	ND	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.3	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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 BHH0597 - EPA 5030 Soil MS

Matrix Spike Dup (BHH0597-MSD1)	Source: 2408217-01			Prepared: 08/21/24 Analyzed: 08/22/24						
Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130	10.9	30	
Toluene	0.106	0.0050	"	0.100	ND	106	70-130	10.6	30	
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	4.59	30	
m,p-Xylene	0.207	0.010	"	0.200	ND	103	70-130	6.50	30	
o-Xylene	0.0995	0.0050	"	0.100	ND	99.5	70-130	4.37	30	
1,2,4-Trimethylbenzene	0.0960	0.0050	"	0.100	ND	96.0	70-130	4.31	30	
1,3,5-Trimethylbenzene	0.0976	0.0050	"	0.100	ND	97.6	70-130	4.59	30	
Naphthalene	0.0874	0.0038	"	0.100	ND	87.4	70-130	0.0687	30	
Surrogate: 1,2-Dichloroethane-d4	0.0478		"	0.0400		119	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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 BHH0600 - EPA 3550A

Blank (BHH0600-BLK1)

Prepared: 08/21/24 Analyzed: 08/22/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	17.0		"	12.5		136	30-150			

LCS (BHH0600-BS1)

Prepared: 08/21/24 Analyzed: 08/22/24

C10-C28 (DRO)	467	50	mg/kg	500		93.4	70-130			
Surrogate: o-Terphenyl	17.8		"	12.5		142	30-150			

Matrix Spike (BHH0600-MS1)

Source: 2408217-01

Prepared: 08/21/24 Analyzed: 08/22/24

C10-C28 (DRO)	427	50	mg/kg	500	39.5	77.4	70-130			
Surrogate: o-Terphenyl	13.0		"	12.5		104	30-150			

Matrix Spike Dup (BHH0600-MSD1)

Source: 2408217-01

Prepared: 08/21/24 Analyzed: 08/22/24

C10-C28 (DRO)	414	50	mg/kg	500	39.5	74.8	70-130	3.07	20	
Surrogate: o-Terphenyl	14.6		"	12.5		117	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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 BHH0564 - EPA 5030 Soil MS

Blank (BHH0564-BLK1)

Prepared: 08/21/24 Analyzed: 08/22/24

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	0.0226		"	0.0333		67.7	40-150			
Surrogate: Fluoranthene-d10	0.0222		"	0.0333		66.5	40-150			

LCS (BHH0564-BS1)

Prepared: 08/21/24 Analyzed: 08/22/24

Acenaphthene	0.0187	0.00500	mg/kg	0.0333		56.1	31-137			
Anthracene	0.0186	0.00500	"	0.0333		55.9	30-120			
Benzo (a) anthracene	0.0197	0.00500	"	0.0333		59.2	30-120			
Benzo (a) pyrene	0.0170	0.00500	"	0.0333		50.9	30-120			
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333		54.6	30-120			
Benzo (k) fluoranthene	0.0188	0.00500	"	0.0333		56.3	30-120			
Chrysene	0.0194	0.00500	"	0.0333		58.1	30-120			
Dibenz (a,h) anthracene	0.0122	0.00500	"	0.0333		36.7	30-120			
Fluoranthene	0.0189	0.00500	"	0.0333		56.6	30-120			
Fluorene	0.0207	0.00500	"	0.0333		62.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333		42.4	30-120			
Pyrene	0.0206	0.00500	"	0.0333		61.9	35-142			
1-Methylnaphthalene	0.0213	0.00500	"	0.0333		63.8	35-142			
2-Methylnaphthalene	0.0171	0.00500	"	0.0333		51.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0221		"	0.0333		66.4	40-150			
Surrogate: Fluoranthene-d10	0.0192		"	0.0333		57.7	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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 BHH0564 - EPA 5030 Soil MS

Matrix Spike (BHH0564-MS1)

Source: 2408216-01

Prepared: 08/21/24 Analyzed: 08/22/24

Acenaphthene	0.0181	0.00500	mg/kg	0.0333	ND	54.2	31-137				
Anthracene	0.0199	0.00500	"	0.0333	ND	59.6	30-120				
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	ND	61.4	30-120				
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120				
Benzo (b) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.8	30-120				
Benzo (k) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.8	30-120				
Chrysene	0.0198	0.00500	"	0.0333	ND	59.4	30-120				
Dibenz (a,h) anthracene	0.0125	0.00500	"	0.0333	ND	37.6	30-120				
Fluoranthene	0.0198	0.00500	"	0.0333	ND	59.5	30-120				
Fluorene	0.0208	0.00500	"	0.0333	ND	62.4	30-120				
Indeno (1,2,3-cd) pyrene	0.0142	0.00500	"	0.0333	ND	42.7	30-120				
Pyrene	0.0211	0.00500	"	0.0333	ND	63.4	35-142				
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.4	15-130				
2-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.2	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		48.1	40-150				
Surrogate: Fluoranthene-d10	0.0201		"	0.0333		60.4	40-150				

Matrix Spike Dup (BHH0564-MSD1)

Source: 2408216-01

Prepared: 08/21/24 Analyzed: 08/22/24

Acenaphthene	0.0170	0.00500	mg/kg	0.0333	ND	51.1	31-137	5.96	30
Anthracene	0.0183	0.00500	"	0.0333	ND	55.0	30-120	8.01	30
Benzo (a) anthracene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	5.95	30
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	6.64	30
Benzo (b) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	4.52	30
Benzo (k) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.3	30-120	4.56	30
Chrysene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	6.33	30
Dibenz (a,h) anthracene	0.0108	0.00500	"	0.0333	ND	32.3	30-120	15.2	30
Fluoranthene	0.0192	0.00500	"	0.0333	ND	57.6	30-120	3.22	30
Fluorene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	28.9	30
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	0.0333	ND	49.5	30-120	14.8	30
Pyrene	0.0196	0.00500	"	0.0333	ND	58.7	35-142	7.56	30
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.4	15-130	0.0696	50
2-Methylnaphthalene	0.0138	0.00500	"	0.0333	ND	41.3	15-130	11.2	50
Surrogate: 2-Methylnaphthalene-d10	0.0158		"	0.0333		47.3	40-150		
Surrogate: Fluoranthene-d10	0.0192		"	0.0333		57.7	40-150		

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: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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

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

Batch BHH0582 - EPA 3050B

Blank (BHH0582-BLK1)

Prepared: 08/21/24 Analyzed: 08/23/24

Boron ND 2.00 mg/L

LCS (BHH0582-BS1)

Prepared: 08/21/24 Analyzed: 08/23/24

Boron 5.51 2.00 mg/L 5.00 110 80-120

Duplicate (BHH0582-DUP1)

Source: 2408203-01

Prepared: 08/21/24 Analyzed: 08/23/24

Boron 0.271 2.00 mg/L 0.282 4.00 20

Matrix Spike (BHH0582-MS1)

Source: 2408203-01

Prepared: 08/21/24 Analyzed: 08/23/24

Boron 5.21 2.00 mg/L 4.98 0.282 99.0 75-125

Matrix Spike Dup (BHH0582-MSD1)

Source: 2408203-01

Prepared: 08/21/24 Analyzed: 08/23/24

Boron 4.75 2.00 mg/L 4.98 0.282 89.6 75-125 9.41 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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

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

Batch BHH0669 - General Preparation

Blank (BHH0669-BLK1)

Prepared: 08/22/24 Analyzed: 08/27/24

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

LCS (BHH0669-BS1)

Prepared: 08/22/24 Analyzed: 08/27/24

Calcium	5.16	0.0500	mg/L wet	5.00	103	70-130
Magnesium	4.99	0.0500	"	5.00	99.7	70-130
Sodium	5.16	0.0500	"	5.00	103	70-130

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	Project: PDC - Wells 34F	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/27/24 10:46

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

Summit Scientific

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

Batch BHH0612 - General Preparation

Duplicate (BHH0612-DUP1)	Source: 2408211-01		Prepared: 08/21/24		Analyzed: 08/22/24	
% Solids	86.8	%	87.4	0.740	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.

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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 BHH0671 - General Preparation

Blank (BHH0671-BLK1)

Prepared: 08/22/24 Analyzed: 08/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHH0671-BS1)

Prepared: 08/22/24 Analyzed: 08/23/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHH0671-DUP1)

Source: 2408217-04

Prepared: 08/22/24 Analyzed: 08/23/24

Specific Conductance (EC) 4.54 0.0100 mmhos/cm 5.06 10.8 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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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 BHH0670 - General Preparation

LCS (BHH0670-BS1)

Prepared: 08/22/24 Analyzed: 08/23/24

pH	9.07	pH Units	9.18	98.8	95-105
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Duplicate (BHH0670-DUP1)

Source: 2408217-04

Prepared: 08/22/24 Analyzed: 08/23/24

pH	8.01	pH Units	8.00	0.125	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

Notes and Definitions

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