

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 31, 2025

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Wells Ranch 34F
Work Order #2501267

Enclosed are the results of analyses for samples received by Summit Scientific on 01/17/25 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-NE	2501267-01	Soil	01/16/25 17:30	01/17/25 09:30
SS-NW	2501267-02	Soil	01/16/25 17:30	01/17/25 09:30
SS-S	2501267-03	Soil	01/16/25 17:30	01/17/25 09:30
SS-W	2501267-04	Soil	01/16/25 17:30	01/17/25 09:30



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

Lab ID	Page 1 of 1
2501207	

Send Data To:		Send Invoice To:	
Client: Fremont	Project Manager: Paul Henehan	Company: PDC	
Address:	E-Mail: rbuechler@chevron.com, Fremont	Project Name/Location: Wells Ranch 34F	
City/State/Zip:		AFE#:	
Phone:	Project Name: Wells Ranch 34F	PO/Billing Codes:	
Sampler Name: HENEHAN	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested	Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #			Other
1	SS-NE	1/16/25		2										
2	SS-NW	↓		↓										
3	SS-S													
4	SS-W	↓		↓										
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														

Relinquished by: <i>[Signature]</i>	Date/Time: 1/16/25 1730	Received by: <i>[Signature]</i>	Date/Time: 11725 0930	TAT Business Days	Field DO	Notes:
Relinquished by: S2	Date/Time: 11725 0930	Received by: <i>[Signature]</i>	Date/Time: 11725 0930	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 3.7	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

S2 Work Order# 2501267

Sample Receipt Checklist

Client: Tremont Client Project ID: Nelks Ranch 34FReceived Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 3.7 Thermometer # 1Bottle ware (Circle all that apply) Glass Jar/Voa/Amber/Poly/Other

	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.	-			No ice
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours?		-		
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, Total Residual Chlorine (TRC)		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾		-		
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾		-		No Times
Were all samples received intact? ⁽¹⁾	X			
Was adequate sample volume provided? ⁽¹⁾	X			
Were samples provided in appropriate bottle ware?	X			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	X			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
Are any samples/bottles preserved (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			X	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		X		
Additional Comments (if any): 				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Control Form #: SRC-001

Custodian Printed Name

1/17/25 09:30

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

SS-NE
2501267-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA1222	01/28/25	01/29/25	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: **01/16/25 17:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0446	112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIA1230	01/28/25	02/05/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.04	64.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: [none]
 Project Manager: Paul Henchan

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SS-NE
2501267-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1221	01/28/25	02/02/25	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: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	51.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1338	02/24/25	03/02/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: [none]
Project Manager: Paul Henchan

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03/31/25 09:06

SS-NE
2501267-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.52	0.200	mg/kg dry	1	BIB1703	02/28/25	03/19/25	EPA 6020B	
Barium	86.5	0.400	"	"	"	"	"	"	
Cadmium	0.230	0.200	"	"	"	"	"	"	
Copper	6.89	0.400	"	"	"	"	"	"	
Lead	11.2	0.200	"	"	"	"	"	"	
Nickel	6.73	0.400	"	"	"	"	"	"	
Silver	0.0405	0.0200	"	"	"	"	"	"	
Zinc	26.8	0.400	"	"	"	"	"	"	
Selenium	0.269	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0279	02/06/25	02/10/25	EPA 7196A	

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

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.4	0.0500	mg/L dry	1	BIB0626	02/12/25	02/26/25	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	1.39	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0539	0.00100	units	1	BIB1509	02/26/25	02/26/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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2501267-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.3	%	1	BIB0216	02/05/25	02/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0739	0.0100	mmhos/cm	1	BIB0627	02/12/25	02/14/25	EPA 120.1	

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

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.71		pH Units	1	BIB0628	02/12/25	02/14/25	EPA 9045D	

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Project: PDC - Wells Ranch 34F

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SS-NW
2501267-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1222	01/28/25	01/29/25	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: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0468	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1230	01/28/25	02/05/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.3	82.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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SS-NW
2501267-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1221	01/28/25	02/06/25	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: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0149	44.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0140	42.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1338	02/24/25	03/03/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

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03/31/25 09:06

SS-NW
2501267-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.36	0.200	mg/kg dry	1	BIB1703	02/28/25	03/19/25	EPA 6020B	
Barium	71.4	0.400	"	"	"	"	"	"	
Cadmium	0.230	0.200	"	"	"	"	"	"	
Copper	5.97	0.400	"	"	"	"	"	"	
Lead	8.67	0.200	"	"	"	"	"	"	
Nickel	6.08	0.400	"	"	"	"	"	"	
Silver	0.0397	0.0200	"	"	"	"	"	"	
Zinc	21.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0279	02/06/25	02/10/25	EPA 7196A	

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

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.2	0.0500	mg/L dry	1	BIB0626	02/12/25	02/26/25	EPA 6020B	
Magnesium	8.86	0.0500	"	"	"	"	"	"	
Sodium	0.526	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0207	0.00100	units	1	BIB1509	02/26/25	02/26/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
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SS-NW
2501267-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.5	%	1	BIB0216	02/05/25	02/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.302	0.0100	mmhos/cm	1	BIB0627	02/12/25	02/14/25	EPA 120.1	

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

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.80		pH Units	1	BIB0628	02/12/25	02/14/25	EPA 9045D	

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Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

SS-S
2501267-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1222	01/28/25	01/30/25	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: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0435	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1230	01/28/25	02/05/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.4	83.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

SS-S
2501267-03 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1221	01/28/25	02/02/25	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: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0240	72.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0236	70.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1338	02/24/25	03/03/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

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2501267-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.26	0.200	mg/kg dry	1	BIB1703	02/28/25	03/19/25	EPA 6020B
Barium	116	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.80	0.400	"	"	"	"	"	"
Lead	5.39	0.200	"	"	"	"	"	"
Nickel	3.67	0.400	"	"	"	"	"	"
Silver	0.0205	0.0200	"	"	"	"	"	"
Zinc	16.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0279	02/06/25	02/10/25	EPA 7196A	

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

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.7	0.0500	mg/L dry	1	BIB0626	02/12/25	02/26/25	EPA 6020B	
Magnesium	4.39	0.0500	"	"	"	"	"	"	
Sodium	6.33	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.279	0.00100	units	1	BIB1509	02/26/25	02/26/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

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2501267-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.2		%	1	BIB0216	02/05/25	02/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.277	0.0100	mmhos/cm	1	BIB0627	02/12/25	02/14/25	EPA 120.1	

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

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BIB0628	02/12/25	02/14/25	EPA 9045D	

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Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

SS-W
2501267-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA1222	01/28/25	01/30/25	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: **01/16/25 17:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0422	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIA1230	01/28/25	02/05/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.2	89.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

SS-W
2501267-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1221	01/28/25	02/06/25	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: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0176	52.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1338	02/24/25	03/03/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

SS-W
2501267-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.39	0.200	mg/kg dry	1	BIB1703	02/28/25	03/19/25	EPA 6020B
Barium	48.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	7.69	0.400	"	"	"	"	"	"
Lead	6.80	0.200	"	"	"	"	"	"
Nickel	3.68	0.400	"	"	"	"	"	"
Silver	0.0245	0.0200	"	"	"	"	"	"
Zinc	15.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0279	02/06/25	02/10/25	EPA 7196A	

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

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.7	0.0500	mg/L dry	1	BIB0626	02/12/25	02/26/25	EPA 6020B	
Magnesium	3.05	0.0500	"	"	"	"	"	"	
Sodium	3.17	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.183	0.00100	units	1	BIB1509	02/26/25	02/26/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
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SS-W
2501267-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.4		%	1	BIB0216	02/05/25	02/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0452	0.0100	mmhos/cm	1	BIB0627	02/12/25	02/14/25	EPA 120.1	

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

Date Sampled: **01/16/25 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BIB0628	02/12/25	02/14/25	EPA 9045D	

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Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA1222 - EPA 5030 Soil MS

Blank (BIA1222-BLK1)

Prepared: 01/28/25 Analyzed: 01/29/25

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0377</i>		<i>"</i>	<i>0.0400</i>		<i>94.3</i>	<i>50-150</i>			

LCS (BIA1222-BS1)

Prepared: 01/28/25 Analyzed: 01/29/25

Benzene	0.0910	0.0020	mg/kg	0.100		91.0	70-130			
Toluene	0.0896	0.0050	"	0.100		89.6	70-130			
Ethylbenzene	0.0933	0.0050	"	0.100		93.3	70-130			
m,p-Xylene	0.185	0.010	"	0.200		92.6	70-130			
o-Xylene	0.0922	0.0050	"	0.100		92.2	70-130			
1,2,4-Trimethylbenzene	0.0857	0.0050	"	0.100		85.7	70-130			
1,3,5-Trimethylbenzene	0.0870	0.0050	"	0.100		87.0	70-130			
Naphthalene	0.0834	0.0038	"	0.100		83.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.3</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.2</i>	<i>50-150</i>			

Matrix Spike (BIA1222-MS1)

Source: 2501255-01

Prepared: 01/28/25 Analyzed: 01/29/25

Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130			
Toluene	0.0966	0.0050	"	0.100	ND	96.6	70-130			
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
m,p-Xylene	0.199	0.010	"	0.200	ND	99.7	70-130			
o-Xylene	0.0975	0.0050	"	0.100	ND	97.5	70-130			
1,2,4-Trimethylbenzene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
1,3,5-Trimethylbenzene	0.0944	0.0050	"	0.100	ND	94.4	70-130			
Naphthalene	0.0812	0.0038	"	0.100	ND	81.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.3</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0376</i>		<i>"</i>	<i>0.0400</i>		<i>93.9</i>	<i>50-150</i>			

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 PO Box 1289
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Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/31/25 09:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA1222 - EPA 5030 Soil MS

Matrix Spike Dup (BIA1222-MSD1)	Source: 2501255-01			Prepared: 01/28/25 Analyzed: 01/29/25						
Benzene	0.0998	0.0020	mg/kg	0.100	ND	99.8	70-130	3.25	30	
Toluene	0.0902	0.0050	"	0.100	ND	90.2	70-130	6.84	30	
Ethylbenzene	0.0989	0.0050	"	0.100	ND	98.9	70-130	3.37	30	
m,p-Xylene	0.198	0.010	"	0.200	ND	99.1	70-130	0.649	30	
o-Xylene	0.0972	0.0050	"	0.100	ND	97.2	70-130	0.247	30	
1,2,4-Trimethylbenzene	0.0889	0.0050	"	0.100	ND	88.9	70-130	1.67	30	
1,3,5-Trimethylbenzene	0.0932	0.0050	"	0.100	ND	93.2	70-130	1.28	30	
Naphthalene	0.0829	0.0038	"	0.100	ND	82.9	70-130	2.05	30	
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400		97.9	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.1	50-150			

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Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/31/25 09:06

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIA1230 - EPA 3550A

Blank (BIA1230-BLK1)

Prepared: 01/28/25 Analyzed: 02/04/25

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		102	30-150			

LCS (BIA1230-BS1)

Prepared: 01/28/25 Analyzed: 02/04/25

C10-C28 (DRO)	573	50	mg/kg	500		115	70-130			
Surrogate: <i>o</i> -Terphenyl	13.7		"	12.5		110	30-150			

Matrix Spike (BIA1230-MS1)

Source: 2501255-01

Prepared: 01/28/25 Analyzed: 02/04/25

C10-C28 (DRO)	437	50	mg/kg	500	13.6	84.6	70-130			
Surrogate: <i>o</i> -Terphenyl	11.3		"	12.5		90.4	30-150			

Matrix Spike Dup (BIA1230-MSD1)

Source: 2501255-01

Prepared: 01/28/25 Analyzed: 02/04/25

C10-C28 (DRO)	429	50	mg/kg	500	13.6	83.0	70-130	1.86	20	
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		92.8	30-150			

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Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA1221 - EPA 5030 Soil MS

Blank (BIA1221-BLK1)

Prepared: 01/28/25 Analyzed: 02/02/25

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	0.0227		"	0.0333	68.0	40-140					
Surrogate: Fluoranthene-d10	0.0234		"	0.0333	70.2	40-140					

LCS (BIA1221-BS1)

Prepared: 01/28/25 Analyzed: 02/02/25

Acenaphthene	0.0154	0.00500	mg/kg	0.0333	46.2	40-140					
Anthracene	0.0150	0.00500	"	0.0333	45.0	40-140					
Benzo (a) anthracene	0.0158	0.00500	"	0.0333	47.3	40-140					
Benzo (a) pyrene	0.0146	0.00500	"	0.0333	43.9	40-140					
Benzo (b) fluoranthene	0.0168	0.00500	"	0.0333	50.5	40-140					
Benzo (k) fluoranthene	0.0144	0.00500	"	0.0333	43.3	40-140					
Chrysene	0.0156	0.00500	"	0.0333	46.9	40-140					
Dibenz (a,h) anthracene	0.0154	0.00500	"	0.0333	46.2	40-140					
Fluoranthene	0.0157	0.00500	"	0.0333	47.1	40-140					
Fluorene	0.0186	0.00500	"	0.0333	55.9	40-140					
Indeno (1,2,3-cd) pyrene	0.0221	0.00500	"	0.0333	66.4	40-140					
Pyrene	0.0166	0.00500	"	0.0333	49.9	40-140					
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	50.5	40-140					
2-Methylnaphthalene	0.0183	0.00500	"	0.0333	54.9	40-140					
Surrogate: 2-Methylnaphthalene-d10	0.0163		"	0.0333	48.9	40-140					
Surrogate: Fluoranthene-d10	0.0157		"	0.0333	47.0	40-140					

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA1221 - EPA 5030 Soil MS

Matrix Spike (BIA1221-MS1)	Source: 2501267-01			Prepared: 01/28/25 Analyzed: 02/02/25						
Acenaphthene	0.0223	0.00500	mg/kg	0.0333	ND	66.8	40-140			
Anthracene	0.0226	0.00500	"	0.0333	ND	67.9	40-140			
Benzo (a) anthracene	0.0240	0.00500	"	0.0333	ND	72.0	40-140			
Benzo (a) pyrene	0.0220	0.00500	"	0.0333	ND	66.1	40-140			
Benzo (b) fluoranthene	0.0200	0.00500	"	0.0333	ND	60.0	40-140			
Benzo (k) fluoranthene	0.0211	0.00500	"	0.0333	ND	63.2	40-140			
Chrysene	0.0232	0.00500	"	0.0333	ND	69.7	40-140			
Dibenz (a,h) anthracene	0.0259	0.00500	"	0.0333	ND	77.7	40-140			
Fluoranthene	0.0240	0.00500	"	0.0333	ND	72.0	40-140			
Fluorene	0.0260	0.00500	"	0.0333	ND	78.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0239	0.00500	"	0.0333	ND	71.7	40-140			
Pyrene	0.0258	0.00500	"	0.0333	ND	77.3	40-140			
1-Methylnaphthalene	0.0265	0.00500	"	0.0333	ND	79.6	40-140			
2-Methylnaphthalene	0.0296	0.00500	"	0.0333	ND	88.8	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0256		"	0.0333		76.9	40-140			
Surrogate: Fluoranthene-d10	0.0233		"	0.0333		70.0	40-140			

Matrix Spike Dup (BIA1221-MSD1)	Source: 2501267-01			Prepared: 01/28/25 Analyzed: 02/02/25						
Acenaphthene	0.0147	0.00500	mg/kg	0.0333	ND	44.1	40-140	40.9	30	QR-02
Anthracene	0.0139	0.00500	"	0.0333	ND	41.6	40-140	48.0	30	QR-02
Benzo (a) anthracene	0.0146	0.00500	"	0.0333	ND	43.8	40-140	48.8	30	QR-02
Benzo (a) pyrene	0.0147	0.00500	"	0.0333	ND	44.0	40-140	40.1	30	QR-02
Benzo (b) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.7	40-140	29.2	30	
Benzo (k) fluoranthene	0.0143	0.00500	"	0.0333	ND	42.9	40-140	38.2	30	QR-02
Chrysene	0.0138	0.00500	"	0.0333	ND	41.5	40-140	50.6	30	QR-02
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333	ND	52.1	40-140	39.5	30	QR-02
Fluoranthene	0.0142	0.00500	"	0.0333	ND	42.7	40-140	51.0	30	QR-02
Fluorene	0.0186	0.00500	"	0.0333	ND	55.8	40-140	33.2	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.4	40-140	33.0	30	QR-02
Pyrene	0.0148	0.00500	"	0.0333	ND	44.4	40-140	54.1	30	QR-02
1-Methylnaphthalene	0.0173	0.00500	"	0.0333	ND	52.0	40-140	42.0	30	QR-02
2-Methylnaphthalene	0.0190	0.00500	"	0.0333	ND	56.9	40-140	43.7	30	QR-02
Surrogate: 2-Methylnaphthalene-d10	0.0168		"	0.0333		50.5	40-140			
Surrogate: Fluoranthene-d10	0.0144		"	0.0333		43.1	40-140			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/31/25 09:06

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

Summit Scientific

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

Batch BIB1338 - EPA 3050B

Blank (BIB1338-BLK1)

Prepared: 02/24/25 Analyzed: 03/02/25

Boron ND 2.00 mg/L

LCS (BIB1338-BS1)

Prepared: 02/24/25 Analyzed: 03/02/25

Boron 5.13 2.00 mg/L 5.00 103 80-120

Duplicate (BIB1338-DUP1)

Source: 2501267-01

Prepared: 02/24/25 Analyzed: 03/02/25

Boron 0.285 2.00 mg/L 0.364 24.3 20 QR-01

Matrix Spike (BIB1338-MS1)

Source: 2501267-01

Prepared: 02/24/25 Analyzed: 03/02/25

Boron 4.93 2.00 mg/L 5.00 0.364 91.3 75-125

Matrix Spike Dup (BIB1338-MSD1)

Source: 2501267-01

Prepared: 02/24/25 Analyzed: 03/02/25

Boron 4.35 2.00 mg/L 5.00 0.364 79.8 75-125 12.4 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIB1703 - EPA 3050B

Blank (BIB1703-BLK1)

Prepared: 02/28/25 Analyzed: 03/19/25

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 (BIB1703-BS1)

Prepared: 02/28/25 Analyzed: 03/19/25

Arsenic	40.5	0.200	mg/kg wet	40.3	100	80-120
Barium	40.8	0.400	"	40.3	101	80-120
Cadmium	2.01	0.200	"	2.02	99.8	80-120
Copper	43.4	0.400	"	40.3	108	80-120
Lead	20.1	0.200	"	20.2	99.8	80-120
Nickel	42.9	0.400	"	40.3	106	80-120
Silver	2.01	0.0200	"	2.02	99.6	80-120
Zinc	42.9	0.400	"	40.3	106	80-120
Selenium	4.62	0.260	"	4.03	115	80-120

Duplicate (BIB1703-DUP1)

Source: 2501263-01

Prepared: 02/28/25 Analyzed: 03/19/25

Arsenic	1.22	0.200	mg/kg dry	1.77	36.8	20	QR-04
Barium	42.4	0.400	"	44.6	4.94	20	
Cadmium	0.0736	0.200	"	0.0844	13.6	20	
Copper	2.33	0.400	"	2.49	6.72	20	
Lead	3.28	0.200	"	4.18	24.1	20	QR-04
Nickel	2.66	0.400	"	2.74	2.88	20	
Silver	0.0199	0.0200	"	0.0264	28.0	20	QR-04
Zinc	9.99	0.400	"	10.5	4.85	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/31/25 09:06

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIB1703 - EPA 3050B

Matrix Spike (BIB1703-MS1)

Source: 2501263-01

Prepared: 02/28/25 Analyzed: 03/19/25

Arsenic	42.5	0.200	mg/kg dry	41.3	1.77	98.8	75-125			
Barium	88.3	0.400	"	41.3	44.6	106	75-125			
Cadmium	2.12	0.200	"	2.06	0.0844	98.6	75-125			
Copper	36.8	0.400	"	41.3	2.49	83.1	75-125			
Lead	25.1	0.200	"	20.6	4.18	101	75-125			
Nickel	37.1	0.400	"	41.3	2.74	83.3	75-125			
Silver	2.13	0.0200	"	2.06	0.0264	102	75-125			
Zinc	44.8	0.400	"	41.3	10.5	83.2	75-125			
Selenium	4.38	0.260	"	4.13	ND	106	75-125			

Matrix Spike Dup (BIB1703-MSD1)

Source: 2501263-01

Prepared: 02/28/25 Analyzed: 03/19/25

Arsenic	43.4	0.200	mg/kg dry	41.6	1.77	100	75-125	2.05	25
Barium	85.2	0.400	"	41.6	44.6	97.7	75-125	3.53	25
Cadmium	2.00	0.200	"	2.08	0.0844	92.3	75-125	5.54	25
Copper	36.2	0.400	"	41.6	2.49	81.1	75-125	1.57	25
Lead	23.9	0.200	"	20.8	4.18	94.9	75-125	4.83	25
Nickel	36.5	0.400	"	41.6	2.74	81.1	75-125	1.75	25
Silver	2.00	0.0200	"	2.08	0.0264	94.7	75-125	6.63	25
Zinc	44.1	0.400	"	41.6	10.5	80.8	75-125	1.62	25
Selenium	4.30	0.260	"	4.16	ND	103	75-125	1.91	25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/31/25 09:06

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIB0279 - 3060A Mod

Blank (BIB0279-BLK1)

Prepared: 02/06/25 Analyzed: 02/10/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIB0279-BS1)

Prepared: 02/06/25 Analyzed: 02/10/25

Chromium, Hexavalent 26.9 0.30 mg/kg wet 26.0 103 80-120

Duplicate (BIB0279-DUP1)

Source: 2501262-01

Prepared: 02/06/25 Analyzed: 02/10/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIB0279-MS1)

Source: 2501262-01

Prepared: 02/06/25 Analyzed: 02/10/25

Chromium, Hexavalent 28.2 0.30 mg/kg dry 28.2 ND 100 75-125

Matrix Spike Dup (BIB0279-MSD1)

Source: 2501262-01

Prepared: 02/06/25 Analyzed: 02/10/25

Chromium, Hexavalent 30.0 0.30 mg/kg dry 27.4 ND 110 75-125 6.18 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/31/25 09:06

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 BIB0626 - General Preparation

Blank (BIB0626-BLK1)

Prepared: 02/12/25 Analyzed: 02/26/25

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

LCS (BIB0626-BS1)

Prepared: 02/12/25 Analyzed: 02/26/25

Calcium	4.60	0.0500	mg/L wet	5.00		92.0	70-130			
Magnesium	5.87	0.0500	"	5.00		117	70-130			
Sodium	5.29	0.0500	"	5.00		106	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/31/25 09:06

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

Summit Scientific

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

Batch BIB0216 - General Preparation

Duplicate (BIB0216-DUP1)

Source: 2501267-01

Prepared: 02/05/25 Analyzed: 02/07/25

% Solids	86.0		%		87.3			1.53		20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/31/25 09:06

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

Summit Scientific

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

Batch BIB0627 - General Preparation

Blank (BIB0627-BLK1)

Prepared: 02/12/25 Analyzed: 02/14/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB0627-BS1)

Prepared: 02/12/25 Analyzed: 02/14/25

Specific Conductance (EC) 1.40 0.0100 mmhos/cm 1.41 99.4 95-105

Duplicate (BIB0627-DUP1)

Source: 2501265-01

Prepared: 02/12/25 Analyzed: 02/14/25

Specific Conductance (EC) 0.625 0.0100 mmhos/cm 0.627 0.322 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 03/31/25 09:06

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

Summit Scientific

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

Batch BIB0628 - General Preparation

LCS (BIB0628-BS1)

Prepared: 02/12/25 Analyzed: 02/14/25

pH	9.15	pH Units	9.18	99.6	95-105
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Duplicate (BIB0628-DUP1)

Source: 2501265-01

Prepared: 02/12/25 Analyzed: 02/14/25

pH	7.99	pH Units	8.03	0.495	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells Ranch 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
03/31/25 09:06

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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