

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 02, 2025

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Gus Pad
Work Order #2501528

Enclosed are the results of analyses for samples received by Summit Scientific on 01/31/25 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "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 - Gus Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/02/25 06:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS-02(3)	2501528-01	Soil	01/29/25 16:30	01/31/25 16:30

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S₂

2501528

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

Page 1 of 1

Client: Fremont Environmental Inc.

Project Manager: Paul Henchan

Address:

E-Mail: PDC/CHEVRON rbuev27@charron.com

City/State/Zip:

michelle.bartoszczek@charron.com, Fremont

Phone:

Project Name: GUS PAD

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,RO	PAHs	pH, EC, SAR	Boron	915-1 metals	Arsenic		BTEXN + TMBS
1	FS-02(3)	1/29/25		2			✓		✓												Full 915-1 suite
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <i>[Signature]</i>	Date/Time: 1/31/25 1000	Received by: <i>[Signature]</i>	Date/Time:	Turn Around Time (Check)	Notes:
Relinquished by: <i>sc</i>	Date/Time: 1/31/25 1630	Received by: <i>[Signature]</i>	Date/Time: 1/31/25 1630	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>4.4</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

S2 Work Order# 2501528

Sample Receipt Checklist

Client: Fremont Client Project ID: Gus Pad

Shipped Via: H.D./R.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

Matrix (Circle all that apply) Air Soil Water Other Temp (°C) 44 Thermometer # 1

Bottle 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.	-			ALZIE
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours present?		-		
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⁾	/			
Was adequate sample volume provided? ⁽¹⁾	/			
Were samples provided in appropriate bottleware?	/			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	/			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	/			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			/	
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.			/	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			/	
If dissolved metals are requested, were samples field filtered?			/	
Will any samples be performed outside of Summit Scientific? If yes, note in comments column		/	/	
<u>Additional Comments (if any):</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Control Form # SRC-001

AS
Custodian Printed Name

1/31/25
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/02/25 06:51

FS-02(3)
2501528-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB0489	02/10/25	02/15/25	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: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0410	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB0495	02/10/25	02/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.84	70.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FS-02(3)
2501528-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0309	02/06/25	02/18/25	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: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0302	90.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0024	03/03/25	03/13/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.30	0.200	mg/kg dry	1	BIC0761	03/13/25	03/29/25	EPA 6020B	
Barium	19.8	0.400	"	"	"	"	"	"	
Cadmium	0.338	0.200	"	"	"	"	"	"	
Copper	9.59	0.400	"	"	"	"	"	"	
Lead	13.3	0.200	"	"	"	"	"	"	
Nickel	5.68	0.400	"	"	"	"	"	"	
Silver	0.0320	0.0200	"	"	"	"	"	"	
Zinc	21.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0578	02/11/25	02/12/25	EPA 7196A	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.4	0.0500	mg/L dry	1	BIB1161	02/20/25	03/01/25	EPA 6020B	
Magnesium	19.1	0.0500	"	"	"	"	"	"	
Sodium	222	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.52	0.00100	units	1	BIC0002	03/01/25	03/01/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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2501528-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.2	%	1	BIB0737	02/13/25	02/14/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.33	0.0100	mmhos/cm	1	BIB1163	02/20/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BIB1162	02/20/25	02/24/25	EPA 9045D	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BIB0489 - EPA 5030 Soil MS

Blank (BIB0489-BLK1)

Prepared: 02/10/25 Analyzed: 02/15/25

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>	0.0422		"	0.0400		106	50-150			
<i>Surrogate: Toluene-d8</i>	0.0406		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0428		"	0.0400		107	50-150			

LCS (BIB0489-BS1)

Prepared: 02/10/25 Analyzed: 02/15/25

Benzene	0.101	0.0020	mg/kg	0.100		101	70-130			
Toluene	0.0996	0.0050	"	0.100		99.6	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.202	0.010	"	0.200		101	70-130			
o-Xylene	0.105	0.0050	"	0.100		105	70-130			
1,2,4-Trimethylbenzene	0.0991	0.0050	"	0.100		99.1	70-130			
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100		107	70-130			
Naphthalene	0.0880	0.0038	"	0.100		88.0	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0410		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0415		"	0.0400		104	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0416		"	0.0400		104	50-150			

Matrix Spike (BIB0489-MS1)

Source: 2501463-01

Prepared: 02/10/25 Analyzed: 02/15/25

Benzene	0.0595	0.0020	mg/kg	0.100	ND	59.5	70-130			QM-05
Toluene	0.0651	0.0050	"	0.100	ND	65.1	70-130			QM-05
Ethylbenzene	0.0869	0.0050	"	0.100	ND	86.9	70-130			
m,p-Xylene	0.169	0.010	"	0.200	ND	84.5	70-130			
o-Xylene	0.0828	0.0050	"	0.100	ND	82.8	70-130			
1,2,4-Trimethylbenzene	0.0705	0.0050	"	0.100	ND	70.5	70-130			
1,3,5-Trimethylbenzene	0.0889	0.0050	"	0.100	ND	88.9	70-130			
Naphthalene	0.0477	0.0038	"	0.100	ND	47.7	70-130			QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0438		"	0.0400		110	50-150			
<i>Surrogate: Toluene-d8</i>	0.0425		"	0.0400		106	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0411		"	0.0400		103	50-150			

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Project: PDC - Gus Pad

Project Number: [none]
 Project Manager: Paul Henchan

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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 BIB0489 - EPA 5030 Soil MS

Matrix Spike Dup (BIB0489-MSD1)	Source: 2501463-01			Prepared: 02/10/25 Analyzed: 02/15/25						
Benzene	0.0635	0.0020	mg/kg	0.100	ND	63.5	70-130	6.58	30	QM-05
Toluene	0.0652	0.0050	"	0.100	ND	65.2	70-130	0.138	30	QM-05
Ethylbenzene	0.0938	0.0050	"	0.100	ND	93.8	70-130	7.60	30	
m,p-Xylene	0.172	0.010	"	0.200	ND	86.0	70-130	1.85	30	
o-Xylene	0.0852	0.0050	"	0.100	ND	85.2	70-130	2.93	30	
1,2,4-Trimethylbenzene	0.0715	0.0050	"	0.100	ND	71.5	70-130	1.48	30	
1,3,5-Trimethylbenzene	0.0930	0.0050	"	0.100	ND	93.0	70-130	4.55	30	
Naphthalene	0.0400	0.0038	"	0.100	ND	40.0	70-130	17.7	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	50-150			

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Project: PDC - Gus Pad

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIB0495 - EPA 3550A

Blank (BIB0495-BLK1)

Prepared: 02/10/25 Analyzed: 02/12/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5		104	30-150				

LCS (BIB0495-BS1)

Prepared: 02/10/25 Analyzed: 02/12/25

C10-C28 (DRO)	399	50	mg/kg	500		79.8	70-130				
Surrogate: <i>o</i> -Terphenyl	13.3		"	12.5		106	30-150				

Matrix Spike (BIB0495-MS1)

Source: 2501463-01

Prepared: 02/10/25 Analyzed: 02/12/25

C10-C28 (DRO)	420	50	mg/kg	500	ND	84.0	70-130				
Surrogate: <i>o</i> -Terphenyl	7.50		"	12.5		60.0	30-150				

Matrix Spike Dup (BIB0495-MSD1)

Source: 2501463-01

Prepared: 02/10/25 Analyzed: 02/12/25

C10-C28 (DRO)	403	50	mg/kg	500	ND	80.7	70-130	4.00	20		
Surrogate: <i>o</i> -Terphenyl	6.81		"	12.5		54.5	30-150				

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PAH by EPA Method 8270D SIM - Quality Control

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

Batch BIB0309 - EPA 5030 Soil MS

Blank (BIB0309-BLK1)

Prepared: 02/06/25 Analyzed: 02/12/25

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	0.0172		"	0.0333		51.6	40-140			
Surrogate: Fluoranthene-d10	0.0268		"	0.0333		80.5	40-140			

LCS (BIB0309-BS1)

Prepared: 02/06/25 Analyzed: 02/12/25

Acenaphthene	0.0253	0.00500	mg/kg	0.0333		75.9	40-140			
Anthracene	0.0277	0.00500	"	0.0333		83.1	40-140			
Benzo (a) anthracene	0.0292	0.00500	"	0.0333		87.6	40-140			
Benzo (a) pyrene	0.0273	0.00500	"	0.0333		82.0	40-140			
Benzo (b) fluoranthene	0.0266	0.00500	"	0.0333		79.8	40-140			
Benzo (k) fluoranthene	0.0275	0.00500	"	0.0333		82.6	40-140			
Chrysene	0.0288	0.00500	"	0.0333		86.5	40-140			
Dibenz (a,h) anthracene	0.0277	0.00500	"	0.0333		83.2	40-140			
Fluoranthene	0.0300	0.00500	"	0.0333		89.9	40-140			
Fluorene	0.0267	0.00500	"	0.0333		80.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0154	0.00500	"	0.0333		46.1	40-140			
Pyrene	0.0182	0.00500	"	0.0333		54.7	40-140			
1-Methylnaphthalene	0.0279	0.00500	"	0.0333		83.6	40-140			
2-Methylnaphthalene	0.0279	0.00500	"	0.0333		83.7	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0271		"	0.0333		81.2	40-140			
Surrogate: Fluoranthene-d10	0.0362		"	0.0333		109	40-140			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/02/25 06:51

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 BIB0309 - EPA 5030 Soil MS

Matrix Spike (BIB0309-MS1)		Source: 2501442-01			Prepared: 02/06/25		Analyzed: 02/18/25	
Acenaphthene	0.0154	0.00500	mg/kg	0.0333	ND	46.3	40-140	
Anthracene	0.0176	0.00500	"	0.0333	ND	52.9	40-140	
Benzo (a) anthracene	0.0178	0.00500	"	0.0333	ND	53.4	40-140	
Benzo (a) pyrene	0.0156	0.00500	"	0.0333	ND	46.7	40-140	
Benzo (b) fluoranthene	0.0135	0.00500	"	0.0333	ND	40.5	40-140	
Benzo (k) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.0	40-140	
Chrysene	0.0153	0.00500	"	0.0333	ND	45.8	40-140	
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.0	40-140	
Fluoranthene	0.0230	0.00500	"	0.0333	ND	69.0	40-140	
Fluorene	0.0177	0.00500	"	0.0333	ND	53.0	40-140	
Indeno (1,2,3-cd) pyrene	0.0120	0.00500	"	0.0333	ND	35.9	40-140	QM-05
Pyrene	ND	0.00500	"	0.0333	ND		40-140	QM-05
1-Methylnaphthalene	0.0137	0.00500	"	0.0333	ND	41.0	40-140	
2-Methylnaphthalene	0.0134	0.00500	"	0.0333	ND	40.3	40-140	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0142</i>		<i>"</i>	<i>0.0333</i>		<i>42.6</i>	<i>40-140</i>	
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0236</i>		<i>"</i>	<i>0.0333</i>		<i>70.8</i>	<i>40-140</i>	

Matrix Spike Dup (BIB0309-MSD1)		Source: 2501442-01			Prepared: 02/06/25		Analyzed: 02/18/25	
Acenaphthene	0.0135	0.00500	mg/kg	0.0333	ND	40.5	40-140	13.5 30
Anthracene	0.0161	0.00500	"	0.0333	ND	48.2	40-140	9.22 30
Benzo (a) anthracene	0.0164	0.00500	"	0.0333	ND	49.2	40-140	8.17 30
Benzo (a) pyrene	0.0142	0.00500	"	0.0333	ND	42.5	40-140	9.33 30
Benzo (b) fluoranthene	0.0132	0.00500	"	0.0333	ND	39.7	40-140	2.04 30
Benzo (k) fluoranthene	0.0130	0.00500	"	0.0333	ND	39.1	40-140	7.13 30
Chrysene	0.0140	0.00500	"	0.0333	ND	41.9	40-140	8.98 30
Dibenz (a,h) anthracene	0.0113	0.00500	"	0.0333	ND	33.9	40-140	18.8 30
Fluoranthene	0.0217	0.00500	"	0.0333	ND	65.1	40-140	5.76 30
Fluorene	0.0159	0.00500	"	0.0333	ND	47.8	40-140	10.3 30
Indeno (1,2,3-cd) pyrene	0.0103	0.00500	"	0.0333	ND	30.8	40-140	15.3 30
Pyrene	ND	0.00500	"	0.0333	ND		40-140	30
1-Methylnaphthalene	0.0136	0.00500	"	0.0333	ND	40.9	40-140	0.0317 30
2-Methylnaphthalene	0.0129	0.00500	"	0.0333	ND	38.7	40-140	4.11 30
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0134</i>		<i>"</i>	<i>0.0333</i>		<i>40.2</i>	<i>40-140</i>	
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0222</i>		<i>"</i>	<i>0.0333</i>		<i>66.7</i>	<i>40-140</i>	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/02/25 06:51

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 BIC0024 - EPA 3050B

Blank (BIC0024-BLK1)

Prepared: 03/03/25 Analyzed: 03/13/25

Boron ND 2.00 mg/L

LCS (BIC0024-BS1)

Prepared: 03/03/25 Analyzed: 03/13/25

Boron 4.73 2.00 mg/L 5.00 94.7 80-120

Duplicate (BIC0024-DUP1)

Source: 2501525-01

Prepared: 03/03/25 Analyzed: 03/13/25

Boron 0.207 2.00 mg/L 0.170 19.2 20

Matrix Spike (BIC0024-MS1)

Source: 2501525-01

Prepared: 03/03/25 Analyzed: 03/13/25

Boron 5.08 2.00 mg/L 5.01 0.170 97.9 75-125

Matrix Spike Dup (BIC0024-MSD1)

Source: 2501525-01

Prepared: 03/03/25 Analyzed: 03/13/25

Boron 5.17 2.00 mg/L 5.01 0.170 99.8 75-125 1.85 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/02/25 06:51

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 BIC0761 - EPA 3050B

Blank (BIC0761-BLK1)

Prepared: 03/13/25 Analyzed: 03/29/25

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 (BIC0761-BS1)

Prepared: 03/13/25 Analyzed: 03/28/25

Arsenic	39.5	0.200	mg/kg wet	41.3	95.5	80-120
Barium	41.2	0.400	"	41.3	99.7	80-120
Cadmium	2.02	0.200	"	2.07	97.7	80-120
Copper	43.2	0.400	"	41.3	105	80-120
Lead	20.6	0.200	"	20.7	99.9	80-120
Nickel	42.6	0.400	"	41.3	103	80-120
Silver	2.04	0.0200	"	2.07	98.9	80-120
Zinc	42.9	0.400	"	41.3	104	80-120
Selenium	4.00	0.260	"	4.13	96.9	80-120

Duplicate (BIC0761-DUP1)

Source: 2501511-01

Prepared: 03/13/25 Analyzed: 03/28/25

Arsenic	5.04	0.200	mg/kg dry	4.42	13.0	20
Barium	61.3	0.400	"	61.6	0.455	20
Cadmium	0.258	0.200	"	0.269	4.22	20
Copper	5.81	0.400	"	5.48	5.76	20
Lead	7.82	0.200	"	7.92	1.21	20
Nickel	4.99	0.400	"	4.70	5.97	20
Silver	0.0350	0.0200	"	0.0354	1.12	20
Zinc	23.0	0.400	"	21.5	7.02	20
Selenium	0.218	0.260	"	0.215	1.44	20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/02/25 06:51

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 BIC0761 - EPA 3050B

Matrix Spike (BIC0761-MS1)	Source: 2501511-01			Prepared: 03/13/25 Analyzed: 03/28/25							
Arsenic	46.2	0.200	mg/kg dry	44.7	4.42	93.6	75-125				
Barium	107	0.400	"	44.7	61.6	103	75-125				
Cadmium	2.53	0.200	"	2.23	0.269	101	75-125				
Copper	36.2	0.400	"	44.7	5.48	68.7	75-125				QM-05
Lead	29.8	0.200	"	22.3	7.92	98.1	75-125				
Nickel	36.0	0.400	"	44.7	4.70	70.2	75-125				QM-05
Silver	2.28	0.0200	"	2.23	0.0354	100	75-125				
Zinc	53.4	0.400	"	44.7	21.5	71.4	75-125				QM-05
Selenium	4.37	0.260	"	4.47	0.215	93.1	75-125				

Matrix Spike Dup (BIC0761-MSD1)	Source: 2501511-01			Prepared: 03/13/25 Analyzed: 03/28/25							
Arsenic	50.1	0.200	mg/kg dry	47.3	4.42	96.7	75-125	8.04	25		
Barium	107	0.400	"	47.3	61.6	96.3	75-125	0.261	25		
Cadmium	2.62	0.200	"	2.36	0.269	99.6	75-125	3.64	25		
Copper	38.8	0.400	"	47.3	5.48	70.6	75-125	7.14	25		QM-05
Lead	30.7	0.200	"	23.6	7.92	96.5	75-125	3.00	25		
Nickel	38.3	0.400	"	47.3	4.70	71.2	75-125	6.17	25		QM-05
Silver	2.34	0.0200	"	2.36	0.0354	97.7	75-125	2.90	25		
Zinc	57.1	0.400	"	47.3	21.5	75.4	75-125	6.71	25		
Selenium	4.79	0.260	"	4.73	0.215	96.8	75-125	9.06	25		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/02/25 06:51

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 BIB0578 - 3060A Mod

Blank (BIB0578-BLK1)

Prepared: 02/11/25 Analyzed: 02/12/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIB0578-BS1)

Prepared: 02/11/25 Analyzed: 02/12/25

Chromium, Hexavalent 23.0 0.30 mg/kg wet 24.5 94.0 80-120

Duplicate (BIB0578-DUP1)

Source: 2501518-01

Prepared: 02/11/25 Analyzed: 02/12/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIB0578-MS1)

Source: 2501518-01

Prepared: 02/11/25 Analyzed: 02/12/25

Chromium, Hexavalent 27.1 0.30 mg/kg dry 26.6 ND 102 75-125

Matrix Spike Dup (BIB0578-MSD1)

Source: 2501518-01

Prepared: 02/11/25 Analyzed: 02/12/25

Chromium, Hexavalent 28.6 0.30 mg/kg dry 28.3 ND 101 75-125 5.35 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/02/25 06:51

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

Summit Scientific

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

Batch BIB1161 - General Preparation

Blank (BIB1161-BLK1)

Prepared: 02/20/25 Analyzed: 02/28/25

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

LCS (BIB1161-BS1)

Prepared: 02/20/25 Analyzed: 02/28/25

Calcium	5.45	0.0500	mg/L wet	5.00		109	70-130			
Magnesium	4.60	0.0500	"	5.00		92.0	70-130			
Sodium	4.46	0.0500	"	5.00		89.2	70-130			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/02/25 06:51

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 BIB0737 - General Preparation

Duplicate (BIB0737-DUP1)

Source: 2501526-01

Prepared: 02/13/25 Analyzed: 02/14/25

% Solids	88.6		%		87.0			1.79	20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/02/25 06:51

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 BIB1163 - General Preparation

Blank (BIB1163-BLK1)

Prepared: 02/20/25 Analyzed: 02/24/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB1163-BS1)

Prepared: 02/20/25 Analyzed: 02/24/25

Specific Conductance (EC) 1.43 0.0100 mmhos/cm 1.41 102 95-105

Duplicate (BIB1163-DUP1)

Source: 2501463-01

Prepared: 02/20/25 Analyzed: 02/24/25

Specific Conductance (EC) 0.308 0.0100 mmhos/cm 0.307 0.333 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/02/25 06:51

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

Summit Scientific

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

Batch BIB1162 - General Preparation

LCS (BIB1162-BS1)

Prepared: 02/20/25 Analyzed: 02/24/25

pH	9.23	pH Units	9.18	101	95-105
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Duplicate (BIB1162-DUP1)

Source: 2501463-01

Prepared: 02/20/25 Analyzed: 02/24/25

pH	8.99	pH Units	9.02	0.301	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/02/25 06:51

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. 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