

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 13, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Gus LD Pad
Work Order #2411152

Enclosed are the results of analyses for samples received by Summit Scientific on 11/08/24 17:00. 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 - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-NE-ON 2FT	2411152-01	Soil	11/08/24 00:00	11/08/24 17:00
BG-NW-ON 2FT	2411152-02	Soil	11/08/24 00:00	11/08/24 17:00
BG-NN-ON 2FT	2411152-03	Soil	11/08/24 00:00	11/08/24 17:00
BG-SE-ON 1FT	2411152-04	Soil	11/08/24 00:00	11/08/24 17:00
BG-SW-ON 1FT	2411152-05	Soil	11/08/24 00:00	11/08/24 17:00
SS-01(2) 1FT	2411152-06	Soil	11/08/24 00:00	11/08/24 17:00
SS-01(2) 2FT	2411152-07	Soil	11/08/24 00:00	11/08/24 17:00

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S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

2411152

Page 1 of 1

Client: Fremont Environmental Inc.

Project Manager: Paul Henahan

Address:

E-Mail: PDC

City/State/Zip:

Phone: Project Name: GUS LD PAD

Sampler Name: HENAHAN

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	915-1 metals	Arsenic	BTEXN + TMBS	TDS, Cl, Su				
1	BG-NE-ON 2 FT	11/8/24		2			✓			✓						✓	✓	✓							
2	BG-NW-ON 2 FT																								
3	BG-NN-ON 2 FT																								
4	BG-SE-ON 1 FT																								
5	BG-SW-ON 1 FT																								
6	SS-OI(2) 1 FT																								
7	SS-OI(2) 2 FT																								
8																									
9																									
10																									

Relinquished by: <u>PAUL RE</u>	Date/Time: <u>11/8/24 1700</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/24 1700</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>	
				24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
				48 hours <input checked="" type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: <u>5.9</u>	
				Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2411152Client: FremontClient Project ID: Gus LP PadShipped 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"/>
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Matrix (Check all that apply)

Air ☐Soil/Solid ☐Water ☐Other ☐Temp (°C) 5.9Thermometer # 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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on 1/5
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	48 hrs
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
11/13/24 13:34

BG-NE-ON 2FT
2411152-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0570	11/12/24	11/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.12	0.200		mg/kg dry	1	BHK0488	11/11/24	11/12/24	EPA 6020B	
Barium	12.3	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	8.08	0.400		"	"	"	"	"	"	
Lead	11.7	0.200		"	"	"	"	"	"	
Nickel	4.54	0.400		"	"	"	"	"	"	
Silver	0.0221	0.0200		"	"	"	"	"	"	
Zinc	16.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0474	11/11/24	11/11/24	EPA 7196A	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	22.3	0.0500		mg/L dry	1	BHK0452	11/08/24	11/11/24	EPA 6020B	
Magnesium	8.90	0.0500		"	"	"	"	"	"	
Sodium	156	0.0500		"	"	"	"	"	"	

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Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

BG-NE-ON 2FT
2411152-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.06	0.00100	units	1	BHK0593	11/12/24	11/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BHK0492	11/11/24	11/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.03	0.0100	mmhos/cm	1	BHK0454	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.19		pH Units	1	BHK0455	11/08/24	11/11/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Gus LD Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

BG-NW-ON 2FT
2411152-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0570	11/12/24	11/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.68	0.200	mg/kg dry	1	BHK0488	11/11/24	11/12/24	EPA 6020B	
Barium	9.42	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.16	0.400	"	"	"	"	"	"	
Lead	5.78	0.200	"	"	"	"	"	"	
Nickel	5.48	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	17.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0474	11/11/24	11/11/24	EPA 7196A	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	28.7	0.0500	mg/L dry	1	BHK0452	11/08/24	11/11/24	EPA 6020B	
Magnesium	12.9	0.0500	"	"	"	"	"	"	
Sodium	258	0.0500	"	"	"	"	"	"	

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Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

BG-NW-ON 2FT
2411152-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.1	0.00100	units	1	BHK0593	11/12/24	11/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BHK0492	11/11/24	11/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.65	0.0100	mmhos/cm	1	BHK0454	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHK0455	11/08/24	11/11/24	EPA 9045D	

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Fremont Environmental
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Project: PDC - Gus LD Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

BG-NN-ON 2FT
2411152-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0570	11/12/24	11/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.98	0.200	mg/kg dry	1	BHK0488	11/11/24	11/12/24	EPA 6020B	
Barium	62.9	0.400	"	"	"	"	"	"	
Cadmium	0.406	0.200	"	"	"	"	"	"	
Copper	9.39	0.400	"	"	"	"	"	"	
Lead	15.0	0.200	"	"	"	"	"	"	
Nickel	7.51	0.400	"	"	"	"	"	"	
Silver	0.0397	0.0200	"	"	"	"	"	"	
Zinc	28.9	0.400	"	"	"	"	"	"	
Selenium	0.396	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0474	11/11/24	11/11/24	EPA 7196A	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	6.26	0.0500	mg/L dry	1	BHK0452	11/08/24	11/11/24	EPA 6020B	
Magnesium	2.85	0.0500	"	"	"	"	"	"	
Sodium	209	0.0500	"	"	"	"	"	"	

Calculated Analysis

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PO Box 1289
Wellington CO, 80549

Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henahan

Reported:
11/13/24 13:34

BG-NN-ON 2FT
2411152-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	17.4	0.00100	units	1	BHK0593	11/12/24	11/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BHK0492	11/11/24	11/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	mmhos/cm	1	BHK0454	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.03		pH Units	1	BHK0455	11/08/24	11/11/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Gus LD Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

BG-SE-ON 1FT
2411152-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0570	11/12/24	11/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.12	0.200	mg/kg dry	1	BHK0488	11/11/24	11/12/24	EPA 6020B	
Barium	70.4	0.400	"	"	"	"	"	"	
Cadmium	0.362	0.200	"	"	"	"	"	"	
Copper	19.5	0.400	"	"	"	"	"	"	
Lead	11.2	0.200	"	"	"	"	"	"	
Nickel	7.19	0.400	"	"	"	"	"	"	
Silver	0.0356	0.0200	"	"	"	"	"	"	
Zinc	27.3	0.400	"	"	"	"	"	"	
Selenium	0.274	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0474	11/11/24	11/11/24	EPA 7196A	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	40.3	0.0500	mg/L dry	1	BHK0452	11/08/24	11/11/24	EPA 6020B	
Magnesium	8.89	0.0500	"	"	"	"	"	"	
Sodium	324	0.0500	"	"	"	"	"	"	

Calculated Analysis

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PO Box 1289
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Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henahan

Reported:
11/13/24 13:34

BG-SE-ON 1FT
2411152-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.0	0.00100	units	1	BHK0593	11/12/24	11/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.0		%	1	BHK0492	11/11/24	11/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.00	0.0100	mmhos/cm	1	BHK0454	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.31		pH Units	1	BHK0455	11/08/24	11/11/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

BG-SW-ON 1FT
2411152-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0570	11/12/24	11/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.62	0.200	mg/kg dry	1	BHK0488	11/11/24	11/12/24	EPA 6020B	
Barium	61.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.54	0.400	"	"	"	"	"	"	
Lead	5.05	0.200	"	"	"	"	"	"	
Nickel	5.07	0.400	"	"	"	"	"	"	
Silver	0.0223	0.0200	"	"	"	"	"	"	
Zinc	16.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0474	11/11/24	11/11/24	EPA 7196A	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	22.3	0.0500	mg/L dry	1	BHK0452	11/08/24	11/11/24	EPA 6020B	
Magnesium	2.44	0.0500	"	"	"	"	"	"	
Sodium	155	0.0500	"	"	"	"	"	"	

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 - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henahan

Reported:
11/13/24 13:34

BG-SW-ON 1FT
2411152-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.32	0.00100	units	1	BHK0593	11/12/24	11/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	1	BHK0492	11/11/24	11/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.01	0.0100	mmhos/cm	1	BHK0454	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.39		pH Units	1	BHK0455	11/08/24	11/11/24	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus LD Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

SS-01(2) 1FT
2411152-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0570	11/12/24	11/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.59	0.200	mg/kg dry	1	BHK0488	11/11/24	11/12/24	EPA 6020B	
Barium	167	0.400	"	"	"	"	"	"	
Cadmium	0.212	0.200	"	"	"	"	"	"	
Copper	5.91	0.400	"	"	"	"	"	"	
Lead	6.58	0.200	"	"	"	"	"	"	
Nickel	4.70	0.400	"	"	"	"	"	"	
Silver	0.0486	0.0200	"	"	"	"	"	"	
Zinc	19.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0474	11/11/24	11/11/24	EPA 7196A	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	38.1	0.0500	mg/L dry	1	BHK0452	11/08/24	11/11/24	EPA 6020B	
Magnesium	9.76	0.0500	"	"	"	"	"	"	
Sodium	70.8	0.0500	"	"	"	"	"	"	

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 - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henahan

Reported:
11/13/24 13:34

SS-01(2) 1FT
2411152-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.65	0.00100	units	1	BHK0593	11/12/24	11/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHK0492	11/11/24	11/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.684	0.0100	mmhos/cm	1	BHK0454	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.82		pH Units	1	BHK0455	11/08/24	11/11/24	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

SS-01(2) 2FT
2411152-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0570	11/12/24	11/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.17	0.200	mg/kg dry	1	BHK0488	11/11/24	11/12/24	EPA 6020B	
Barium	61.1	0.400	"	"	"	"	"	"	
Cadmium	0.422	0.200	"	"	"	"	"	"	
Copper	8.30	0.400	"	"	"	"	"	"	
Lead	11.3	0.200	"	"	"	"	"	"	
Nickel	7.85	0.400	"	"	"	"	"	"	
Silver	0.0339	0.0200	"	"	"	"	"	"	
Zinc	27.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0474	11/11/24	11/11/24	EPA 7196A	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	19.6	0.0500	mg/L dry	1	BHK0452	11/08/24	11/11/24	EPA 6020B	
Magnesium	5.07	0.0500	"	"	"	"	"	"	
Sodium	101	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus LD Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

SS-01(2) 2FT
2411152-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.26	0.00100	units	1	BHK0593	11/12/24	11/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.5		%	1	BHK0492	11/11/24	11/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.634	0.0100	mmhos/cm	1	BHK0454	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **11/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.10		pH Units	1	BHK0455	11/08/24	11/11/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

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

Summit Scientific

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

Batch BHK0570 - EPA 3050B

Blank (BHK0570-BLK1)

Prepared: 11/12/24 Analyzed: 11/13/24

Boron ND 2.00 mg/L

LCS (BHK0570-BS1)

Prepared: 11/12/24 Analyzed: 11/13/24

Boron 4.77 2.00 mg/L 5.00 95.3 80-120

Duplicate (BHK0570-DUP1)

Source: 2411102-01

Prepared: 11/12/24 Analyzed: 11/13/24

Boron 0.150 2.00 mg/L 0.188 22.3 20 QR-01

Matrix Spike (BHK0570-MS1)

Source: 2411102-01

Prepared: 11/12/24 Analyzed: 11/13/24

Boron 5.03 2.00 mg/L 4.99 0.188 97.0 75-125

Matrix Spike Dup (BHK0570-MSD1)

Source: 2411102-01

Prepared: 11/12/24 Analyzed: 11/13/24

Boron 4.99 2.00 mg/L 4.99 0.188 96.2 75-125 0.762 25

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 - Gus LD Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHK0488 - EPA 3050B

Blank (BHK0488-BLK1)

Prepared: 11/11/24 Analyzed: 11/12/24

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

LCS (BHK0488-BS1)

Prepared: 11/11/24 Analyzed: 11/12/24

Arsenic	41.0	0.200	mg/kg wet	40.7	101	80-120
Barium	41.9	0.400	"	40.7	103	80-120
Cadmium	1.94	0.200	"	2.03	95.5	80-120
Copper	38.5	0.400	"	40.7	94.8	80-120
Lead	19.6	0.200	"	20.3	96.3	80-120
Nickel	38.6	0.400	"	40.7	94.9	80-120
Silver	1.68	0.0200	"	2.03	82.8	80-120
Zinc	38.0	0.400	"	40.7	93.4	80-120
Selenium	4.22	0.260	"	4.07	104	80-120

Duplicate (BHK0488-DUP1)

Source: 2410575-01

Prepared: 11/11/24 Analyzed: 11/12/24

Arsenic	2.44	0.200	mg/kg dry	2.70	10.4	20
Barium	97.8	0.400	"	109	10.9	20
Cadmium	0.181	0.200	"	0.242	28.9	20
Copper	2.51	0.400	"	2.43	3.42	20
Lead	4.36	0.200	"	4.84	10.5	20
Nickel	2.17	0.400	"	2.22	2.00	20
Silver	0.0144	0.0200	"	0.0167	14.6	20
Zinc	10.8	0.400	"	10.9	1.25	20
Selenium	ND	0.260	"	ND		20

QR-01

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 - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHK0488 - EPA 3050B

Matrix Spike (BHK0488-MS1)		Source: 2410575-01			Prepared: 11/11/24 Analyzed: 11/12/24					
Arsenic	43.4	0.200	mg/kg dry	42.3	2.70	96.1	75-125			
Barium	147	0.400	"	42.3	109	90.4	75-125			
Cadmium	2.28	0.200	"	2.12	0.242	96.5	75-125			
Copper	31.1	0.400	"	42.3	2.43	67.8	75-125			QM-05
Lead	24.4	0.200	"	21.2	4.84	92.2	75-125			
Nickel	31.2	0.400	"	42.3	2.22	68.4	75-125			QM-05
Silver	1.78	0.0200	"	2.12	0.0167	83.3	75-125			
Zinc	39.7	0.400	"	42.3	10.9	68.1	75-125			QM-05
Selenium	3.69	0.260	"	4.23	ND	87.2	75-125			

Matrix Spike Dup (BHK0488-MSD1)		Source: 2410575-01			Prepared: 11/11/24 Analyzed: 11/12/24					
Arsenic	42.2	0.200	mg/kg dry	40.7	2.70	97.2	75-125	2.75	25	
Barium	120	0.400	"	40.7	109	27.5	75-125	20.2	25	QM-05
Cadmium	2.19	0.200	"	2.03	0.242	95.9	75-125	4.11	25	
Copper	31.6	0.400	"	40.7	2.43	71.8	75-125	1.58	25	QM-05
Lead	23.0	0.200	"	20.3	4.84	89.4	75-125	5.60	25	
Nickel	31.7	0.400	"	40.7	2.22	72.4	75-125	1.53	25	QM-05
Silver	1.70	0.0200	"	2.03	0.0167	82.8	75-125	4.48	25	
Zinc	38.9	0.400	"	40.7	10.9	68.9	75-125	2.06	25	QM-05
Selenium	3.47	0.260	"	4.07	ND	85.4	75-125	6.06	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
11/13/24 13:34

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHK0474 - 3060A Mod

Blank (BHK0474-BLK1)

Prepared & Analyzed: 11/11/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHK0474-BS1)

Prepared & Analyzed: 11/11/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 103 80-120

Duplicate (BHK0474-DUP1)

Source: 2410559-01

Prepared & Analyzed: 11/11/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHK0474-MS1)

Source: 2410559-01

Prepared & Analyzed: 11/11/24

Chromium, Hexavalent 28.7 0.30 mg/kg dry 27.4 ND 105 75-125

Matrix Spike Dup (BHK0474-MSD1)

Source: 2410559-01

Prepared & Analyzed: 11/11/24

Chromium, Hexavalent 27.5 0.30 mg/kg dry 27.4 ND 100 75-125 4.30 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

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

Summit Scientific

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

Batch BHK0452 - General Preparation

Blank (BHK0452-BLK1)

Prepared: 11/08/24 Analyzed: 11/11/24

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

LCS (BHK0452-BS1)

Prepared: 11/08/24 Analyzed: 11/11/24

Calcium	4.97	0.0500	mg/L wet	5.00	99.3	70-130
Magnesium	4.75	0.0500	"	5.00	94.9	70-130
Sodium	4.58	0.0500	"	5.00	91.6	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 - Gus LD Pad	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	11/13/24 13:34

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

Summit Scientific

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

Batch BHK0492 - General Preparation

Duplicate (BHK0492-DUP1)	Source: 2411072-01	Prepared & Analyzed: 11/11/24
% Solids	77.9	%75.92.6420

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.

Atalio Bessin



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

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

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

Batch BHK0454 - General Preparation

Blank (BHK0454-BLK1)

Prepared: 11/08/24 Analyzed: 11/11/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHK0454-BS1)

Prepared: 11/08/24 Analyzed: 11/11/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHK0454-DUP1)

Source: 2410629-01

Prepared: 11/08/24 Analyzed: 11/11/24

Specific Conductance (EC) 1.02 0.0100 mmhos/cm 1.00 1.68 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 - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

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 BHK0455 - General Preparation

LCS (BHK0455-BS1)

Prepared: 11/08/24 Analyzed: 11/11/24

pH	9.19	pH Units	9.18	100	95-105
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Duplicate (BHK0455-DUP1)

Source: 2410629-01

Prepared: 11/08/24 Analyzed: 11/11/24

pH	8.48	pH Units	8.51	0.353	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 - Gus LD Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/13/24 13:34

Notes and Definitions

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.
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