

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 12, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Raindance Pad
Work Order #2409075

Enclosed are the results of analyses for samples received by Summit Scientific on 09/06/24 08:30. 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 - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/24 09:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-SE-OFF 2FT	2409075-01	Soil	09/05/24 00:00	09/06/24 08:30
BG-NW-OFF 2FT	2409075-02	Soil	09/05/24 00:00	09/06/24 08:30
BG-W-OFF 2FT	2409075-03	Soil	09/05/24 00:00	09/06/24 08:30
BG-E-OFF 2FT	2409075-04	Soil	09/05/24 00:00	09/06/24 08:30
BG-NW-ON 2FT	2409075-05	Soil	09/05/24 00:00	09/06/24 08:30
BG-SW-ON 2FT	2409075-06	Soil	09/05/24 00:00	09/06/24 08:30

Client: Fremont	Send Data To: Project Manager: Paul Henehan	Send Invoice To: Company: PDC
Address:	E-Mail:	Project Name/Location: RAINDANCE PAD
City/State/Zip:		AFE#:
Phone:	Project Name: RAINDANCE PAD	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	915-1 INORGANICS / BORON	
1	BG-SE-OFF 2 FT	9/5/24		2			✓			✓				
2	BG-NW-OFF 2 FT													
3	BG-W-OFF 2 FT													
4	BG-E-OFF 2 FT													
5	BG-NW-ON 2 FT													
6	BG-SW-ON 2 FT													
7														
8														
9														
10														
11														
12														
13														
14														
15														

Relinquished by: <i>[Signature]</i>	Date/Time: 9/5/24 1730	Received by: <i>[Signature]</i>	Date/Time:	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: SL	Date/Time: 9/6/24 0830	Received by: <i>[Signature]</i>	Date/Time: 9/6/24 0830	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 75	Corrected Temperature: <i>[Signature]</i>	IR gun #: <i>[Signature]</i>	HNO3 lot #:	Standard	Field Turb. ✓	

S₂

Sample Receipt Checklist

S2 Work Order# 2409075

Client: Fremont Client Project ID: Raindance Pad

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	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"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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.				

[Signature]
Custodian Printed Name

9/24/0830
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/24 09:42

BG-SE-OFF 2FT
2409075-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHI0235	09/09/24	09/10/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.90	0.200	mg/kg dry	1	BHI0213	09/09/24	09/10/24	EPA 6020B	
Barium	59.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	11.9	0.400	"	"	"	"	"	"	
Lead	10.9	0.200	"	"	"	"	"	"	
Nickel	12.8	0.400	"	"	"	"	"	"	
Silver	0.0551	0.0200	"	"	"	"	"	"	
Zinc	50.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0232	09/09/24	09/09/24	EPA 7196A	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	489	0.0500	mg/L dry	1	BHI0295	09/10/24	09/11/24	EPA 6020B	
Magnesium	222	0.0500	"	"	"	"	"	"	
Sodium	98.9	0.0500	"	"	"	"	"	"	

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 Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/12/24 09:42

BG-SE-OFF 2FT
2409075-01 (Soil)

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Calculated Analysis

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.931	0.00100	units	1	BHI0379	09/12/24	09/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	BHI0224	09/09/24	09/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.70	0.0100	mmhos/cm	1	BHI0301	09/10/24	09/11/24	EPA 120.1	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BHI0299	09/10/24	09/11/24	EPA 9045D	

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/24 09:42

BG-NW-OFF 2FT
2409075-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHI0235	09/09/24	09/10/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.05	0.200	mg/kg dry	1	BHI0213	09/09/24	09/10/24	EPA 6020B	
Barium	24.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	10.9	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	11.2	0.400	"	"	"	"	"	"	
Silver	0.0560	0.0200	"	"	"	"	"	"	
Zinc	48.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0232	09/09/24	09/09/24	EPA 7196A	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	425	0.0500	mg/L dry	1	BHI0295	09/10/24	09/11/24	EPA 6020B	
Magnesium	294	0.0500	"	"	"	"	"	"	
Sodium	282	0.0500	"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
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Project: PDC - Raindance Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/12/24 09:42

BG-NW-OFF 2FT
2409075-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.57	0.00100	units	1	BHI0379	09/12/24	09/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.4		%	1	BHI0224	09/09/24	09/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.47	0.0100	mmhos/cm	1	BHI0301	09/10/24	09/11/24	EPA 120.1	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BHI0299	09/10/24	09/11/24	EPA 9045D	

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/24 09:42

BG-W-OFF 2FT
2409075-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHI0235	09/09/24	09/10/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.11	0.200	mg/kg dry	1	BHI0213	09/09/24	09/10/24	EPA 6020B	
Barium	18.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.71	0.400	"	"	"	"	"	"	
Lead	9.83	0.200	"	"	"	"	"	"	
Nickel	10.5	0.400	"	"	"	"	"	"	
Silver	0.0582	0.0200	"	"	"	"	"	"	
Zinc	44.9	0.400	"	"	"	"	"	"	
Selenium	0.334	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0232	09/09/24	09/09/24	EPA 7196A	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	110	0.0500	mg/L dry	1	BHI0295	09/10/24	09/11/24	EPA 6020B	
Magnesium	322	0.0500	"	"	"	"	"	"	
Sodium	529	0.0500	"	"	"	"	"	"	

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Project: PDC - Raindance Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/12/24 09:42

BG-W-OFF 2FT
2409075-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.75	0.00100	units	1	BHI0379	09/12/24	09/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.1		%	1	BHI0224	09/09/24	09/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.25	0.0100	mmhos/cm	1	BHI0301	09/10/24	09/11/24	EPA 120.1	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.66		pH Units	1	BHI0299	09/10/24	09/11/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/24 09:42

BG-E-OFF 2FT
2409075-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHI0235	09/09/24	09/10/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.98	0.200	mg/kg dry	1	BHI0213	09/09/24	09/10/24	EPA 6020B	
Barium	86.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	12.2	0.400	"	"	"	"	"	"	
Lead	10.3	0.200	"	"	"	"	"	"	
Nickel	14.1	0.400	"	"	"	"	"	"	
Silver	0.0484	0.0200	"	"	"	"	"	"	
Zinc	49.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0232	09/09/24	09/09/24	EPA 7196A	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	33.6	0.0500	mg/L dry	1	BHI0295	09/10/24	09/11/24	EPA 6020B	
Magnesium	10.0	0.0500	"	"	"	"	"	"	
Sodium	3.91	0.0500	"	"	"	"	"	"	

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Project: PDC - Raindance Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/12/24 09:42

BG-E-OFF 2FT
2409075-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.152	0.00100	units	1	BHI0379	09/12/24	09/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BHI0224	09/09/24	09/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.204	0.0100	mmhos/cm	1	BHI0301	09/10/24	09/11/24	EPA 120.1	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.48		pH Units	1	BHI0299	09/10/24	09/11/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: PDC - Raindance Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/24 09:42

**BG-NW-ON 2FT
2409075-05 (Soil)**

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHI0235	09/09/24	09/10/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.04	0.200	mg/kg dry	1	BHI0213	09/09/24	09/10/24	EPA 6020B	
Barium	25.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	9.59	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	13.3	0.400	"	"	"	"	"	"	
Silver	0.0626	0.0200	"	"	"	"	"	"	
Zinc	50.0	0.400	"	"	"	"	"	"	
Selenium	0.370	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0232	09/09/24	09/09/24	EPA 7196A	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	197	0.0500	mg/L dry	1	BHI0295	09/10/24	09/11/24	EPA 6020B	
Magnesium	108	0.0500	"	"	"	"	"	"	
Sodium	100	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/24 09:42

BG-NW-ON 2FT
2409075-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.42	0.00100	units	1	BHI0379	09/12/24	09/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BHI0224	09/09/24	09/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.88	0.0100	mmhos/cm	1	BHI0301	09/10/24	09/11/24	EPA 120.1	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BHI0299	09/10/24	09/11/24	EPA 9045D	

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/24 09:42

BG-SW-ON 2FT
2409075-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHI0235	09/09/24	09/10/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	7.45	0.200	mg/kg dry	1	BHI0213	09/09/24	09/10/24	EPA 6020B	
Barium	33.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	11.6	0.400	"	"	"	"	"	"	
Lead	12.1	0.200	"	"	"	"	"	"	
Nickel	12.8	0.400	"	"	"	"	"	"	
Silver	0.0649	0.0200	"	"	"	"	"	"	
Zinc	53.1	0.400	"	"	"	"	"	"	
Selenium	0.385	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0232	09/09/24	09/09/24	EPA 7196A	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	365	0.0500	mg/L dry	1	BHI0295	09/10/24	09/11/24	EPA 6020B	
Magnesium	473	0.0500	"	"	"	"	"	"	
Sodium	229	0.0500	"	"	"	"	"	"	

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Project: PDC - Raindance Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/12/24 09:42

BG-SW-ON 2FT
2409075-06 (Soil)

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Calculated Analysis

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.86	0.00100	units	1	BHI0379	09/12/24	09/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BHI0224	09/09/24	09/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.52	0.0100	mmhos/cm	1	BHI0301	09/10/24	09/11/24	EPA 120.1	

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

Date Sampled: **09/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BHI0299	09/10/24	09/11/24	EPA 9045D	

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Project: PDC - Raindance Pad

Project Number: [none]
 Project Manager: Paul Henchan

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 09/12/24 09:42

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

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

Batch BHI0235 - EPA 3050B

Blank (BHI0235-BLK1)

Prepared: 09/09/24 Analyzed: 09/10/24

Boron ND 2.00 mg/L

LCS (BHI0235-BS1)

Prepared: 09/09/24 Analyzed: 09/10/24

Boron 4.95 2.00 mg/L 5.00 99.1 80-120

Duplicate (BHI0235-DUP1)

Source: 2409074-01

Prepared: 09/09/24 Analyzed: 09/10/24

Boron 1.14 2.00 mg/L 1.09 4.34 20

Matrix Spike (BHI0235-MS1)

Source: 2409074-01

Prepared: 09/09/24 Analyzed: 09/10/24

Boron 6.02 2.00 mg/L 5.02 1.09 98.1 75-125

Matrix Spike Dup (BHI0235-MSD1)

Source: 2409074-01

Prepared: 09/09/24 Analyzed: 09/10/24

Boron 5.98 2.00 mg/L 5.02 1.09 97.4 75-125 0.606 25

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Project: PDC - Rairdance Pad

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Project Manager: Paul Henchan

Reported:
09/12/24 09:42

Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BHI0213 - EPA 3050B

Blank (BHI0213-BLK1)

Prepared & Analyzed: 09/09/24

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 (BHI0213-BS1)

Prepared & Analyzed: 09/09/24

Arsenic	31.2	0.179	mg/kg wet	35.7	87.4	80-120
Barium	31.6	0.357	"	35.7	88.5	80-120
Cadmium	1.62	0.179	"	1.79	90.8	80-120
Copper	32.5	0.357	"	35.7	91.0	80-120
Lead	15.7	0.179	"	17.9	87.9	80-120
Nickel	32.3	0.357	"	35.7	90.4	80-120
Silver	1.64	0.0179	"	1.79	91.8	80-120
Zinc	31.5	0.357	"	35.7	88.3	80-120
Selenium	3.14	0.232	"	3.57	87.9	80-120

Duplicate (BHI0213-DUP1)

Source: 2409061-01

Prepared & Analyzed: 09/09/24

Arsenic	1.59	0.200	mg/kg dry	1.62	2.23	20	
Barium	64.8	0.400	"	107	49.1	20	QR-02
Cadmium	0.0959	0.200	"	0.116	19.0	20	
Copper	4.43	0.400	"	5.24	16.8	20	
Lead	4.55	0.200	"	4.89	7.34	20	
Nickel	4.49	0.400	"	4.55	1.30	20	
Silver	0.0232	0.0200	"	0.0278	18.0	20	
Zinc	18.9	0.400	"	19.6	3.63	20	
Selenium	ND	0.260	"	ND		20	

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Project: PDC - Rairdance Pad

Project Number: [none]
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Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BHI0213 - EPA 3050B

Matrix Spike (BHI0213-MS1)	Source: 2409061-01			Prepared & Analyzed: 09/09/24								
Arsenic	38.4	0.200	mg/kg dry	41.2	1.62	89.3	75-125					
Barium	121	0.400	"	41.2	107	34.8	75-125					QM-05
Cadmium	1.89	0.200	"	2.06	0.116	85.9	75-125					
Copper	43.4	0.400	"	41.2	5.24	92.6	75-125					
Lead	22.8	0.200	"	20.6	4.89	87.2	75-125					
Nickel	43.0	0.400	"	41.2	4.55	93.4	75-125					
Silver	1.75	0.0200	"	2.06	0.0278	83.6	75-125					
Zinc	56.3	0.400	"	41.2	19.6	89.0	75-125					
Selenium	3.32	0.260	"	4.12	ND	80.6	75-125					

Matrix Spike Dup (BHI0213-MSD1)	Source: 2409061-01			Prepared & Analyzed: 09/09/24								
Arsenic	37.7	0.200	mg/kg dry	40.3	1.62	89.6	75-125	1.89	25			
Barium	118	0.400	"	40.3	107	27.9	75-125	2.59	25			QM-05
Cadmium	1.84	0.200	"	2.01	0.116	85.4	75-125	2.66	25			
Copper	42.4	0.400	"	40.3	5.24	92.3	75-125	2.24	25			
Lead	22.5	0.200	"	20.1	4.89	87.2	75-125	1.72	25			
Nickel	42.1	0.400	"	40.3	4.55	93.2	75-125	2.26	25			
Silver	1.70	0.0200	"	2.01	0.0278	83.0	75-125	2.88	25			
Zinc	55.1	0.400	"	40.3	19.6	88.1	75-125	2.12	25			
Selenium	3.26	0.260	"	4.03	ND	81.0	75-125	1.79	25			

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Project: PDC - Raindance Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
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Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHI0232 - 3060A Mod

Blank (BHI0232-BLK1)

Prepared & Analyzed: 09/09/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHI0232-BS1)

Prepared & Analyzed: 09/09/24

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BHI0232-DUP1)

Source: 2409064-01

Prepared & Analyzed: 09/09/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHI0232-MS1)

Source: 2409064-01

Prepared & Analyzed: 09/09/24

Chromium, Hexavalent 28.9 0.30 mg/kg dry 28.3 ND 102 75-125

Matrix Spike Dup (BHI0232-MSD1)

Source: 2409064-01

Prepared & Analyzed: 09/09/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 28.3 ND 98.0 75-125 4.00 20

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Project: PDC - Rairdance Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/12/24 09:42

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 BHI0295 - General Preparation

Blank (BHI0295-BLK1)

Prepared: 09/10/24 Analyzed: 09/11/24

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

LCS (BHI0295-BS1)

Prepared: 09/10/24 Analyzed: 09/11/24

Calcium	5.31	0.0500	mg/L wet	5.00		106	70-130			
Magnesium	5.61	0.0500	"	5.00		112	70-130			
Sodium	5.21	0.0500	"	5.00		104	70-130			

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Project: PDC - Raindance Pad

Project Number: [none]
 Project Manager: Paul Henchan

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

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

Batch BHI0224 - General Preparation

Duplicate (BHI0224-DUP1)		Source: 2409064-01			Prepared & Analyzed: 09/09/24			
% Solids	89.5		%		88.3		1.39	20

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Project: PDC - Rairdance Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/12/24 09:42

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

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

Batch BHI0301 - General Preparation

Blank (BHI0301-BLK1)

Prepared: 09/10/24 Analyzed: 09/11/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHI0301-BS1)

Prepared: 09/10/24 Analyzed: 09/11/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHI0301-DUP1)

Source: 2409063-01

Prepared: 09/10/24 Analyzed: 09/11/24

Specific Conductance (EC) 0.243 0.0100 mmhos/cm 0.247 1.51 20

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Project: PDC - Rairdance Pad

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/12/24 09:42

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 BHI0299 - General Preparation

LCS (BHI0299-BS1)

Prepared: 09/10/24 Analyzed: 09/11/24

pH 9.17 pH Units 9.18 99.9 95-105

Duplicate (BHI0299-DUP1)

Source: 2409063-01

Prepared: 09/10/24 Analyzed: 09/11/24

pH 8.20 pH Units 8.23 0.365 20

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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/24 09:42

Notes and Definitions

- 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.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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