

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

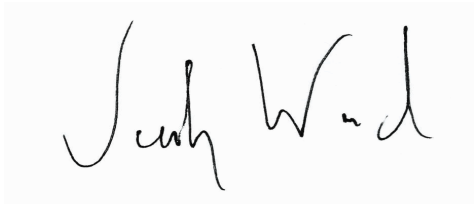
303.277.9310

May 02, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Merlin Pad
Work Order #2403354

Enclosed are the results of analyses for samples received by Summit Scientific on 03/22/24 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Waste Char.	2403354-01	Soil	03/22/24 00:00	03/22/24 16:45
SS-01 1.5FT	2403354-02	Soil	03/22/24 00:00	03/22/24 16:45
SS-01 2.5FT	2403354-03	Soil	03/22/24 00:00	03/22/24 16:45
SS-04 1FT	2403354-04	Soil	03/22/24 00:00	03/22/24 16:45

Summit Scientific

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Lab ID	Page	of
2403354		

Send Data To:										Send Invoice To:									
Client: Fremont Environmental, Inc.					Project Manager: Henahan					Company: PDCE									
Address: 8305 6th St.,					E-Mail: Chevron Dist. List; PDC Dist. List Civitas Dist. List					Project Name/Location:									
City/State/Zip: Wellington, CO, 80549					Fremont Dist. List (Fremont/Wellington) pentH, ethanS, high-mans, high-chlor, stand-pa					AFE#:									
Phone: 603-477-6907					Project Name: PDC - Merlin Pad					PO/Billing Codes:									
Sampler Name: Ethan Black					Project Number:					Contact: Jason Davidson									
					Preservative				Matrix				Analysis Requested				Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	TDS, Chloride, Sulfate	
1	Waste Char.	3/22/24		2			X			X			X	X	X	X	X		
2	SS-01 1.5 FT	I		I															
3	SS-01 2.5 FT																		
4	SS-04 1ft	I		I															
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:		Date/Time:	Received by:		Date/Time:	TAT Business Days		Field DO		Notes:
Ethan Black		3/22/24 1540	S2 - North Office		3/22/24 1540	Same Day	X	Field EC		
SL		3/22/24 1645	[Signature]		3/22/24 1645	1 Day		Field ORP		
						2 Days		Field pH		
						3 Days		Field Temp.		
Temperature Upon Receipt: 8.4			Corrected Temperature: 8			Standard		Field Turb.		
						IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 240 3354Client: FremontClient Project ID: ROC-Merlin PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

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Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

8.4

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ICE</u>
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same day</u>
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 type="checkbox"/>	<input type="checkbox"/>	<u>No sample times</u>
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

AS

3/22/24



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

Waste Char.
2403354-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	34	0.20	mg/kg	100	BHC0877	03/22/24	03/23/24	EPA 8260B	
Toluene	160	0.50	"	"	"	"	"	"	E
Ethylbenzene	50	0.50	"	"	"	"	"	"	
Xylenes (total)	220	1.0	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	69	0.50	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	19	0.50	"	"	"	"	"	"	
Naphthalene	8.4	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	9000	50	"	"	"	"	"	"	E

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0526	131 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0348	87.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0527	132 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	12000	50	mg/kg	1	BHC0878	"	03/22/24	EPA 8015M	
C28-C36 (ORO)	1300	50	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	26.6	213 %	30-150		"	"	"	"	S-02

PAH by EPA Method 8270D SIM

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Waste Char.
2403354-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.524	0.250	mg/kg	50	BHC0899	03/25/24	03/25/24	EPA 8270D SIM	
Anthracene	ND	0.250	"	"	"	"	"	"	
Benzo (a) anthracene	0.485	0.250	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.250	"	"	"	"	"	"	R-05
Benzo (b) fluoranthene	ND	0.250	"	"	"	"	"	"	R-05
Benzo (k) fluoranthene	ND	0.250	"	"	"	"	"	"	R-05
Chrysene	0.303	0.250	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.250	"	"	"	"	"	"	R-05
Fluoranthene	ND	0.250	"	"	"	"	"	"	R-05
Fluorene	2.13	0.250	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.250	"	"	"	"	"	"	R-05
Pyrene	ND	0.250	"	"	"	"	"	"	R-05
1-Methylnaphthalene	21.9	0.250	"	"	"	"	"	"	E
2-Methylnaphthalene	40.6	0.250	"	"	"	"	"	"	E

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00	%	40-150		"	"	"	"	S-01
Surrogate: Fluoranthene-d10	0.00	%	40-150		"	"	"	"	S-01

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0917	03/25/24	04/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
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Waste Char.
2403354-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.92	0.200	mg/kg dry	1	BHC0923	03/25/24	03/26/24	EPA 6020B
Barium	40.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.71	0.400	"	"	"	"	"	"
Lead	4.65	0.200	"	"	"	"	"	"
Nickel	4.52	0.400	"	"	"	"	"	"
Silver	0.0262	0.0200	"	"	"	"	"	"
Zinc	18.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0912	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.4	0.0500	mg/L dry	1	BHC1059	03/28/24	05/01/24	EPA 6020B	
Magnesium	3.33	0.0500	"	"	"	"	"	"	
Sodium	12.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.682	0.00100	units	1	BHE0056	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

Waste Char.
2403354-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.8		%	1	BHC0902	03/25/24	03/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.143	0.0100	mmhos/cm	1	BHC1060	03/28/24	03/29/24	EPA 120.1	

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.82		pH Units	1	BHC1061	03/28/24	03/29/24	EPA 9045D	

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Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

SS-01 1.5FT
2403354-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.023	0.0020	mg/kg	1	BHC0877	03/22/24	03/23/24	EPA 8260B	
Toluene	0.046	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.024	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.14	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.11	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.027	0.0050	"	"	"	"	"	"	
Naphthalene	0.044	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.3	0.50	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0377	94.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0878	"	03/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.26	74.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

SS-01 1.5FT
2403354-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0899	03/25/24	03/25/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00940	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0454	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0655	0.00500	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0193	57.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0255	76.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0917	03/25/24	04/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/22/24 00:00**

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

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05/02/24 14:33

SS-01 1.5FT
2403354-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.83	0.200	mg/kg dry	1	BHC0923	03/25/24	03/26/24	EPA 6020B
Barium	16.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.01	0.400	"	"	"	"	"	"
Lead	10.6	0.200	"	"	"	"	"	"
Nickel	7.20	0.400	"	"	"	"	"	"
Silver	0.0799	0.0200	"	"	"	"	"	"
Zinc	32.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0912	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	241	0.0500	mg/L dry	1	BHC1059	03/28/24	05/01/24	EPA 6020B	
Magnesium	165	0.0500	"	"	"	"	"	"	
Sodium	67.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.818	0.00100	units	1	BHE0056	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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PO Box 1289
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Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

SS-01 1.5FT
2403354-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BHC0902	03/25/24	03/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.12	0.0100	mmhos/cm	1	BHC1060	03/28/24	03/29/24	EPA 120.1	

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BHC1061	03/28/24	03/29/24	EPA 9045D	

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

Reported:
05/02/24 14:33

SS-01 2.5FT
2403354-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0877	03/22/24	03/22/24	EPA 8260B	
Toluene	0.0085	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: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0376	93.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0878	"	03/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.15	57.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/02/24 14:33

SS-01 2.5FT
2403354-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0899	03/25/24	03/25/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0200	60.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0218	65.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0917	03/25/24	04/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

SS-01 2.5FT
2403354-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	8.63	0.200	mg/kg dry	1	BHC0923	03/25/24	03/26/24	EPA 6020B
Barium	51.1	0.400	"	"	"	"	"	"
Cadmium	0.269	0.200	"	"	"	"	"	"
Copper	8.03	0.400	"	"	"	"	"	"
Lead	16.7	0.200	"	"	"	"	"	"
Nickel	8.25	0.400	"	"	"	"	"	"
Silver	0.0986	0.0200	"	"	"	"	"	"
Zinc	35.8	0.400	"	"	"	"	"	"
Selenium	0.273	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0912	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	514	0.0500	mg/L dry	1	BHC1059	03/28/24	05/01/24	EPA 6020B	
Magnesium	292	0.0500	"	"	"	"	"	"	
Sodium	162	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.41	0.00100	units	1	BHE0056	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

SS-01 2.5FT
2403354-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.6	%	1	BHC0902	03/25/24	03/27/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.82	0.0100	mmhos/cm	1	BHC1060	03/28/24	03/29/24	EPA 120.1	

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHC1061	03/28/24	03/29/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

SS-04 1FT
2403354-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0877	03/22/24	03/23/24	EPA 8260B	
Toluene	0.0081	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: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0878	"	03/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.33	74.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/02/24 14:33

SS-04 1FT
2403354-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0899	03/25/24	03/25/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0262	78.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0274	82.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0917	03/25/24	04/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

SS-04 1FT
2403354-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	9.08	0.200	mg/kg dry	1	BHC0923	03/25/24	03/26/24	EPA 6020B
Barium	96.1	0.400	"	"	"	"	"	"
Cadmium	0.322	0.200	"	"	"	"	"	"
Copper	8.59	0.400	"	"	"	"	"	"
Lead	18.6	0.200	"	"	"	"	"	"
Nickel	9.10	0.400	"	"	"	"	"	"
Silver	0.105	0.0200	"	"	"	"	"	"
Zinc	37.7	0.400	"	"	"	"	"	"
Selenium	0.365	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0912	03/25/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	169	0.0500	mg/L dry	1	BHC1059	03/28/24	05/01/24	EPA 6020B	
Magnesium	10.3	0.0500	"	"	"	"	"	"	
Sodium	26.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.525	0.00100	units	1	BHE0056	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

SS-04 1FT
2403354-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.9	%	1	BHC0902	03/25/24	03/27/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.209	0.0100	mmhos/cm	1	BHC1060	03/28/24	03/29/24	EPA 120.1	

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHC1061	03/28/24	03/29/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0877 - EPA 5030 Soil MS

Blank (BHC0877-BLK1)

Prepared: 03/22/24 Analyzed: 03/23/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0400		92.9	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

LCS (BHC0877-BS1)

Prepared: 03/22/24 Analyzed: 03/23/24

Benzene	0.112	0.0020	mg/kg	0.100		112	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.0947	0.0050	"	0.100		94.7	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.6	70-130			
o-Xylene	0.0916	0.0050	"	0.100		91.6	70-130			
1,2,4-Trimethylbenzene	0.0882	0.0050	"	0.100		88.2	70-130			
1,3,5-Trimethylbenzene	0.0871	0.0050	"	0.100		87.1	70-130			
Naphthalene	0.0721	0.0038	"	0.100		72.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.4	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.4	50-150			

Matrix Spike (BHC0877-MS1)

Source: 2403352-01

Prepared: 03/22/24 Analyzed: 03/23/24

Benzene	0.0924	0.0020	mg/kg	0.100	ND	92.4	70-130			
Toluene	0.0850	0.0050	"	0.100	ND	85.0	70-130			
Ethylbenzene	0.0770	0.0050	"	0.100	ND	77.0	70-130			
m,p-Xylene	0.152	0.010	"	0.200	ND	76.1	70-130			
o-Xylene	0.0745	0.0050	"	0.100	ND	74.5	70-130			
1,2,4-Trimethylbenzene	0.0929	0.0050	"	0.100	ND	92.9	70-130			
1,3,5-Trimethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130			
Naphthalene	0.0781	0.0038	"	0.100	ND	78.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0400		91.1	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		99.9	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0877 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0877-MSD1)

Source: 2403352-01

Prepared: 03/22/24 Analyzed: 03/23/24

Benzene	0.104	0.0020	mg/kg	0.100	ND	104	70-130	11.5	30	
Toluene	0.0962	0.0050	"	0.100	ND	96.2	70-130	12.3	30	
Ethylbenzene	0.0851	0.0050	"	0.100	ND	85.1	70-130	10.0	30	
m,p-Xylene	0.168	0.010	"	0.200	ND	83.9	70-130	9.84	30	
o-Xylene	0.0803	0.0050	"	0.100	ND	80.3	70-130	7.56	30	
1,2,4-Trimethylbenzene	0.0983	0.0050	"	0.100	ND	98.3	70-130	5.68	30	
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	4.58	30	
Naphthalene	0.0832	0.0038	"	0.100	ND	83.2	70-130	6.33	30	
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0878 - EPA 3550A

Blank (BHC0878-BLK1)

Prepared: 03/22/24 Analyzed: 03/23/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	15.4		"	12.5		123	30-150			

LCS (BHC0878-BS1)

Prepared: 03/22/24 Analyzed: 03/23/24

C10-C28 (DRO)	517	50	mg/kg	500		103	70-130			
Surrogate: o-Terphenyl	13.3		"	12.5		106	30-150			

Matrix Spike (BHC0878-MS1)

Source: 2403352-01

Prepared: 03/22/24 Analyzed: 03/23/24

C10-C28 (DRO)	427	50	mg/kg	500	32.0	79.0	70-130			
Surrogate: o-Terphenyl	8.55		"	12.5		68.4	30-150			

Matrix Spike Dup (BHC0878-MSD1)

Source: 2403352-01

Prepared: 03/22/24 Analyzed: 03/23/24

C10-C28 (DRO)	384	50	mg/kg	500	32.0	70.4	70-130	10.5	20	
Surrogate: o-Terphenyl	9.10		"	12.5		72.8	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/02/24 14:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0899 - EPA 5030 Soil MS

Blank (BHC0899-BLK1)

Prepared & Analyzed: 03/25/24

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0260	"	0.0333	78.0	40-150
Surrogate: Fluoranthene-d10	0.0322	"	0.0333	96.5	40-150

LCS (BHC0899-BS1)

Prepared & Analyzed: 03/25/24

Acenaphthene	0.0332	0.00500	mg/kg	0.0333	99.6	31-137
Anthracene	0.0328	0.00500	"	0.0333	98.3	30-120
Benzo (a) anthracene	0.0307	0.00500	"	0.0333	92.0	30-120
Benzo (a) pyrene	0.0254	0.00500	"	0.0333	76.3	30-120
Benzo (b) fluoranthene	0.0301	0.00500	"	0.0333	90.3	30-120
Benzo (k) fluoranthene	0.0353	0.00500	"	0.0333	106	30-120
Chrysene	0.0353	0.00500	"	0.0333	106	30-120
Dibenz (a,h) anthracene	0.0250	0.00500	"	0.0333	75.1	30-120
Fluoranthene	0.0332	0.00500	"	0.0333	99.5	30-120
Fluorene	0.0290	0.00500	"	0.0333	86.9	30-120
Indeno (1,2,3-cd) pyrene	0.0184	0.00500	"	0.0333	55.2	30-120
Pyrene	0.0377	0.00500	"	0.0333	113	35-142
1-Methylnaphthalene	0.0371	0.00500	"	0.0333	111	35-142
2-Methylnaphthalene	0.0367	0.00500	"	0.0333	110	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0346	"	0.0333	104	40-150
Surrogate: Fluoranthene-d10	0.0318	"	0.0333	95.5	40-150

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0899 - EPA 5030 Soil MS

Matrix Spike (BHC0899-MS1)

Source: 2403339-01

Prepared & Analyzed: 03/25/24

Acenaphthene	0.0153	0.00500	mg/kg	0.0333	ND	46.0	31-137		
Anthracene	0.0167	0.00500	"	0.0333	ND	50.0	30-120		
Benzo (a) anthracene	0.0169	0.00500	"	0.0333	ND	50.7	30-120		
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.6	30-120		
Benzo (b) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.6	30-120		
Benzo (k) fluoranthene	0.0150	0.00500	"	0.0333	ND	45.1	30-120		
Chrysene	0.0168	0.00500	"	0.0333	ND	50.4	30-120		
Dibenz (a,h) anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120		
Fluoranthene	0.0183	0.00500	"	0.0333	ND	55.0	30-120		
Fluorene	0.0160	0.00500	"	0.0333	ND	47.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120		
Pyrene	0.0198	0.00500	"	0.0333	ND	59.3	35-142		
1-Methylnaphthalene	0.0155	0.00500	"	0.0333	ND	46.6	15-130		
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.3	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0143		"	0.0333		42.8	40-150		
Surrogate: Fluoranthene-d10	0.0182		"	0.0333		54.7	40-150		

Matrix Spike Dup (BHC0899-MSD1)

Source: 2403339-01

Prepared & Analyzed: 03/25/24

Acenaphthene	0.0170	0.00500	mg/kg	0.0333	ND	50.9	31-137	10.2	30
Anthracene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	10.7	30
Benzo (a) anthracene	0.0187	0.00500	"	0.0333	ND	56.2	30-120	10.2	30
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	ND	48.9	30-120	11.5	30
Benzo (b) fluoranthene	0.0173	0.00500	"	0.0333	ND	51.8	30-120	12.8	30
Benzo (k) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.3	30-120	4.90	30
Chrysene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	2.55	30
Dibenz (a,h) anthracene	0.0234	0.00500	"	0.0333	ND	70.3	30-120	9.13	30
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	6.70	30
Fluorene	0.0168	0.00500	"	0.0333	ND	50.5	30-120	5.34	30
Indeno (1,2,3-cd) pyrene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	3.12	30
Pyrene	0.0210	0.00500	"	0.0333	ND	63.0	35-142	6.16	30
1-Methylnaphthalene	0.0159	0.00500	"	0.0333	ND	47.6	15-130	2.15	50
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.4	15-130	10.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0139		"	0.0333		41.8	40-150		
Surrogate: Fluoranthene-d10	0.0192		"	0.0333		57.5	40-150		

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

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 BHC0917 - EPA 3050B

Blank (BHC0917-BLK1)

Prepared: 03/25/24 Analyzed: 04/24/24

Boron ND 2.00 mg/L

LCS (BHC0917-BS1)

Prepared: 03/25/24 Analyzed: 04/24/24

Boron 4.09 2.00 mg/L 5.00 81.7 80-120

Duplicate (BHC0917-DUP1)

Source: 2403322-17

Prepared: 03/25/24 Analyzed: 04/24/24

Boron 0.258 2.00 mg/L 0.157 49.1 20 QR-01

Matrix Spike (BHC0917-MS1)

Source: 2403322-17

Prepared: 03/25/24 Analyzed: 04/24/24

Boron 4.08 2.00 mg/L 5.00 0.157 78.4 75-125

Matrix Spike Dup (BHC0917-MSD1)

Source: 2403322-17

Prepared: 03/25/24 Analyzed: 04/24/24

Boron 4.53 2.00 mg/L 5.00 0.157 87.5 75-125 10.6 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/02/24 14:33

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 BHC0923 - EPA 3050B

Blank (BHC0923-BLK1)

Prepared: 03/25/24 Analyzed: 03/26/24

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 (BHC0923-BS1)

Prepared: 03/25/24 Analyzed: 03/26/24

Arsenic	47.5	0.200	mg/kg wet	40.0	119	80-120
Barium	47.2	0.400	"	40.0	118	80-120
Cadmium	2.35	0.200	"	2.00	118	80-120
Copper	48.1	0.400	"	40.0	120	80-120
Lead	23.5	0.200	"	20.0	117	80-120
Nickel	47.7	0.400	"	40.0	119	80-120
Silver	2.32	0.0200	"	2.00	116	80-120
Zinc	47.7	0.400	"	40.0	119	80-120
Selenium	4.74	0.260	"	4.00	119	80-120

Duplicate (BHC0923-DUP1)

Source: 2403272-01

Prepared: 03/25/24 Analyzed: 03/26/24

Arsenic	19.0	0.200	mg/kg dry	23.9	23.1	20	QR-04
Barium	66.2	0.400	"	77.0	15.1	20	
Cadmium	0.369	0.200	"	0.428	14.8	20	
Copper	9.29	0.400	"	10.9	15.7	20	
Lead	30.6	0.200	"	33.4	8.70	20	
Nickel	2.57	0.400	"	2.85	10.4	20	
Silver	0.0956	0.0200	"	0.104	8.22	20	
Zinc	17.6	0.400	"	19.1	7.98	20	
Selenium	0.549	0.260	"	0.621	12.2	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/02/24 14:33

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 BHC0923 - EPA 3050B

Matrix Spike (BHC0923-MS1)		Source: 2403272-01			Prepared: 03/25/24 Analyzed: 03/26/24					
Arsenic	75.0	0.200	mg/kg dry	54.6	23.9	93.4	75-125			
Barium	118	0.400	"	54.6	77.0	75.4	75-125			
Cadmium	3.38	0.200	"	2.73	0.428	108	75-125			
Copper	44.6	0.400	"	54.6	10.9	61.7	75-125			QM-07
Lead	52.4	0.200	"	27.3	33.4	69.7	75-125			QM-07
Nickel	39.6	0.400	"	54.6	2.85	67.2	75-125			QM-07
Silver	3.07	0.0200	"	2.73	0.104	109	75-125			
Zinc	54.5	0.400	"	54.6	19.1	64.7	75-125			QM-07
Selenium	6.15	0.260	"	5.46	0.621	101	75-125			

Matrix Spike Dup (BHC0923-MSD1)		Source: 2403272-01			Prepared: 03/25/24 Analyzed: 03/26/24					
Arsenic	72.2	0.200	mg/kg dry	54.6	23.9	88.4	75-125	3.73	25	
Barium	115	0.400	"	54.6	77.0	69.9	75-125	2.56	25	QM-07
Cadmium	3.33	0.200	"	2.73	0.428	106	75-125	1.38	25	
Copper	44.3	0.400	"	54.6	10.9	61.2	75-125	0.592	25	QM-07
Lead	52.0	0.200	"	27.3	33.4	68.0	75-125	0.895	25	QM-07
Nickel	39.2	0.400	"	54.6	2.85	66.6	75-125	0.825	25	QM-07
Silver	3.02	0.0200	"	2.73	0.104	107	75-125	1.80	25	
Zinc	54.0	0.400	"	54.6	19.1	63.9	75-125	0.856	25	QM-07
Selenium	5.93	0.260	"	5.46	0.621	97.2	75-125	3.65	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

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 BHC0912 - 3060A Mod

Blank (BHC0912-BLK1)

Prepared: 03/25/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0912-BS1)

Prepared: 03/25/24 Analyzed: 03/29/24

Chromium, Hexavalent 24.7 0.30 mg/kg wet 25.0 98.8 80-120

Duplicate (BHC0912-DUP1)

Source: 2403272-01

Prepared: 03/25/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0912-MS1)

Source: 2403272-01

Prepared: 03/25/24 Analyzed: 03/29/24

Chromium, Hexavalent 34.1 0.30 mg/kg dry 34.1 ND 99.8 75-125

Matrix Spike Dup (BHC0912-MSD1)

Source: 2403272-01

Prepared: 03/25/24 Analyzed: 03/29/24

Chromium, Hexavalent 34.1 0.30 mg/kg dry 34.1 ND 99.8 75-125 0.00 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 - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

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

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

Batch BHC1059 - General Preparation

Blank (BHC1059-BLK1)

Prepared: 03/28/24 Analyzed: 05/01/24

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

LCS (BHC1059-BS1)

Prepared: 03/28/24 Analyzed: 05/01/24

Calcium	5.73	0.0500	mg/L wet	5.00	115	70-130
Magnesium	4.97	0.0500	"	5.00	99.4	70-130
Sodium	4.95	0.0500	"	5.00	99.0	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 PO Box 1289 Wellington CO, 80549	Project: PDC - Merlin Pad Project Number: [none] Project Manager: Paul Henchan	Reported: 05/02/24 14:33
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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BHC0902 - General Preparation

Duplicate (BHC0902-DUP1)	Source: 2401098-01			Prepared: 03/25/24 Analyzed: 03/27/24							
% Solids	95.6		%		94.9			0.710		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 - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

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

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

Batch BHC1060 - General Preparation

Blank (BHC1060-BLK1)

Prepared: 03/28/24 Analyzed: 03/29/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC1060-BS1)

Prepared: 03/28/24 Analyzed: 03/29/24

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 99.7 95-105

Duplicate (BHC1060-DUP1)

Source: 2402489-02

Prepared: 03/28/24 Analyzed: 03/29/24

Specific Conductance (EC) 0.260 0.0100 mmhos/cm 0.263 1.15 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 - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

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 BHC1061 - General Preparation

LCS (BHC1061-BS1)

Prepared: 03/28/24 Analyzed: 03/29/24

pH	9.00	pH Units	9.18	98.0	95-105
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Duplicate (BHC1061-DUP1)

Source: 2402489-02

Prepared: 03/28/24 Analyzed: 03/29/24

pH	8.65	pH Units	8.48	1.98	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 - Merlin Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/02/24 14:33

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 15, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Raindance
Work Order #2403378

Enclosed are the results of analyses for samples received by Summit Scientific on 03/25/24 16:32. 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 - Raindance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-12 0.5FT	2403378-01	Soil	03/25/24 00:00	03/25/24 16:32
SS-13 2FT	2403378-02	Soil	03/25/24 00:00	03/25/24 16:32
SS-14 2FT	2403378-03	Soil	03/25/24 00:00	03/25/24 16:32
SS-15 2FT	2403378-04	Soil	03/25/24 00:00	03/25/24 16:32
SS-16 2FT	2403378-05	Soil	03/25/24 00:00	03/25/24 16:32
SS-17 3FT	2403378-06	Soil	03/25/24 00:00	03/25/24 16:32

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.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2403378	

Client: Fremont Environmental, Inc.		Send Data To: Project Manager: Henghan		Send Invoice To: Company: <i>Mitchell</i> PDCE	
Address: 8305 6th St.		E-Mail: Chevron Dist. List, PDC Dist. List, Civitas Dist. List		Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		Fremont Dist. List (@fremontenv.com) paulb1, ethanb1, nickt, miked, jared, shwot, eland, saxonO		AFE#:	
Phone: 603-477-6907		Project Name: PDCE - Raindance		PO/Billing Codes:	
Sampler Name: Ethan Black		Project Number:		Contact: Jason Davidson	

					Preservative				Matrix			Analysis Requested							Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	TDS, Chloride, Sulfate			
1	SS-12 0.5 FT	3/25/24		2			X			X			X	X	X	X	X				
2	SS-13 2 FT																				
3	SS-14 2 FT																				
4	SS-15 2 FT																				
5	SS-16 2 FT																				
6	SS-17 3 FT	↓		↓						↓			↓	↓	↓	↓	↓				
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <i>Ethan Black</i>	Date/Time: 3/25/24 1632	Received by: S2 - North Office	Date/Time: 3/28/24 1632	TAT Business Days	Field DO	Notes:
Relinquished by: S2	Date/Time: 3/25/24 1632	Received by: <i>[Signature]</i>	Date/Time: 3/28/24 1632	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 13.1	Corrected Temperature: <i>13.1</i>	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2403378Client: FremontClient Project ID: PCE - RaindanceShipped 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)

13.1

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
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 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.
AS
Custodian Printed Name

3/25/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-12 0.5FT
2403378-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0953	03/25/24	03/25/24	EPA 8260B	
Toluene	0.040	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.010	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.020	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.0054	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.75	0.50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0954	"	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.66	77.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-12 0.5FT
2403378-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0975	03/26/24	03/27/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0155	46.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0971	03/26/24	03/29/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-12 0.5FT
2403378-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.80	0.200	mg/kg dry	1	BHC0968	03/26/24	03/28/24	EPA 6020B
Barium	103	0.400	"	"	"	"	"	"
Cadmium	0.316	0.200	"	"	"	"	"	"
Copper	4.97	0.400	"	"	"	"	"	"
Lead	6.42	0.200	"	"	"	"	"	"
Nickel	4.39	0.400	"	"	"	"	"	"
Silver	0.0282	0.0200	"	"	"	"	"	"
Zinc	19.0	0.400	"	"	"	"	"	"
Selenium	1.10	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0961	03/26/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.5	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	7.65	0.0500	"	"	"	"	"	"	
Sodium	3.66	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.118	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-12 0.5FT
2403378-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.5	%	1	BHC0963	03/26/24	03/28/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.155	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-13 2FT
2403378-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0953	03/25/24	03/25/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0469	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0954	"	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.4	82.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-13 2FT
2403378-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0975	03/26/24	03/27/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0157	47.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0971	03/26/24	03/29/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-13 2FT
2403378-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.99	0.200	mg/kg dry	1	BHC0968	03/26/24	03/28/24	EPA 6020B
Barium	45.7	0.400	"	"	"	"	"	"
Cadmium	0.210	0.200	"	"	"	"	"	"
Copper	6.74	0.400	"	"	"	"	"	"
Lead	12.9	0.200	"	"	"	"	"	"
Nickel	8.86	0.400	"	"	"	"	"	"
Silver	0.0813	0.0200	"	"	"	"	"	"
Zinc	33.5	0.400	"	"	"	"	"	"
Selenium	0.408	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0961	03/26/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	352	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	280	0.0500	"	"	"	"	"	"	
Sodium	78.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.757	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-13 2FT
2403378-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.7	%	1	BHC0963	03/26/24	03/28/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.01	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-14 2FT
2403378-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0953	03/25/24	03/25/24	EPA 8260B	
Toluene	0.018	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: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0450	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0954	"	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.5	84.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-14 2FT
2403378-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0975	03/26/24	03/27/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0158	47.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0971	03/26/24	03/29/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/15/24 15:59

SS-14 2FT
2403378-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.93	0.200	mg/kg dry	1	BHC0968	03/26/24	03/28/24	EPA 6020B
Barium	56.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.63	0.400	"	"	"	"	"	"
Lead	6.82	0.200	"	"	"	"	"	"
Nickel	5.05	0.400	"	"	"	"	"	"
Silver	0.0375	0.0200	"	"	"	"	"	"
Zinc	21.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0961	03/26/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	157	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	36.0	0.0500	"	"	"	"	"	"	
Sodium	5.66	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.106	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Reported:
05/15/24 15:59

SS-14 2FT
2403378-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BHC0963	03/26/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.04	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-15 2FT
2403378-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0953	03/25/24	03/25/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0458	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0954	"	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.46	35.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-15 2FT
2403378-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0975	03/26/24	03/27/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0141	42.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0971	03/26/24	03/29/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-15 2FT
2403378-04 (Soil)

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Total Metals by EPA 6020B

Arsenic	7.00	0.200	mg/kg dry	1	BHC0968	03/26/24	03/28/24	EPA 6020B
Barium	72.1	0.400	"	"	"	"	"	"
Cadmium	0.237	0.200	"	"	"	"	"	"
Copper	7.33	0.400	"	"	"	"	"	"
Lead	13.6	0.200	"	"	"	"	"	"
Nickel	7.74	0.400	"	"	"	"	"	"
Silver	0.0729	0.0200	"	"	"	"	"	"
Zinc	32.6	0.400	"	"	"	"	"	"
Selenium	0.342	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0961	03/26/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.2	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	12.8	0.0500	"	"	"	"	"	"	
Sodium	10.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.347	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-15 2FT
2403378-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.3	%	1	BHC0963	03/26/24	03/28/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.303	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-16 2FT
2403378-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0953	03/25/24	03/25/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0484	121 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0432	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0954	"	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.14	33.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-16 2FT
2403378-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0975	03/26/24	03/27/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0218	65.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0971	03/26/24	03/29/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-16 2FT
2403378-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.41	0.200	mg/kg dry	1	BHC0968	03/26/24	03/28/24	EPA 6020B
Barium	81.4	0.400	"	"	"	"	"	"
Cadmium	0.218	0.200	"	"	"	"	"	"
Copper	7.47	0.400	"	"	"	"	"	"
Lead	12.4	0.200	"	"	"	"	"	"
Nickel	7.84	0.400	"	"	"	"	"	"
Silver	0.0722	0.0200	"	"	"	"	"	"
Zinc	31.2	0.400	"	"	"	"	"	"
Selenium	0.290	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0961	03/26/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	157	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	75.2	0.0500	"	"	"	"	"	"	
Sodium	99.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.64	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-16 2FT
2403378-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.8	%	1	BHC0963	03/26/24	03/28/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.55	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-17 3FT
2403378-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0953	03/25/24	03/25/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0459	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0954	"	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	3.90	31.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-17 3FT
2403378-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0975	03/26/24	03/27/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0155	46.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0971	03/26/24	03/29/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-17 3FT
2403378-06 (Soil)

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Total Metals by EPA 6020B

Arsenic	8.31	0.200	mg/kg dry	1	BHC0968	03/26/24	03/28/24	EPA 6020B
Barium	48.3	0.400	"	"	"	"	"	"
Cadmium	0.202	0.200	"	"	"	"	"	"
Copper	7.24	0.400	"	"	"	"	"	"
Lead	13.7	0.200	"	"	"	"	"	"
Nickel	7.71	0.400	"	"	"	"	"	"
Silver	0.0752	0.0200	"	"	"	"	"	"
Zinc	32.4	0.400	"	"	"	"	"	"
Selenium	0.495	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0961	03/26/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	342	0.0500	mg/L dry	1	BHD0021	04/01/24	05/14/24	EPA 6020B	
Magnesium	195	0.0500	"	"	"	"	"	"	
Sodium	50.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.536	0.00100	units	1	BHE0476	05/15/24	05/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

SS-17 3FT
2403378-06 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.4	%	1	BHC0963	03/26/24	03/28/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.48	0.0100	mmhos/cm	1	BHD0023	04/01/24	04/02/24	EPA 120.1	

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

Date Sampled: **03/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BHD0022	04/01/24	04/02/24	EPA 9045D	

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Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHC0953 - EPA 5030 Soil MS

Blank (BHC0953-BLK1)

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0449		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0422		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

LCS (BHC0953-BS1)

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	0.105	0.0020	mg/kg	0.100		105	70-130			
Toluene	0.114	0.0050	"	0.100		114	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.209	0.010	"	0.200		104	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.0886	0.0050	"	0.100		88.6	70-130			
1,3,5-Trimethylbenzene	0.0921	0.0050	"	0.100		92.1	70-130			
Naphthalene	0.0706	0.0038	"	0.100		70.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0424		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

Matrix Spike (BHC0953-MS1)

Source: 2403378-01

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130			
Toluene	0.198	0.0050	"	0.100	0.0398	158	70-130			QM-07
Ethylbenzene	0.118	0.0050	"	0.100	0.0103	107	70-130			
m,p-Xylene	0.279	0.010	"	0.200	0.0342	122	70-130			
o-Xylene	0.141	0.0050	"	0.100	0.0209	120	70-130			
1,2,4-Trimethylbenzene	0.145	0.0050	"	0.100	0.0203	125	70-130			
1,3,5-Trimethylbenzene	0.0808	0.0050	"	0.100	0.00540	75.4	70-130			
Naphthalene	0.0666	0.0038	"	0.100	ND	66.6	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0400		95.7	50-150			
Surrogate: Toluene-d8	0.0454		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		103	50-150			

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Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0953 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0953-MSD1)

Source: 2403378-01

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	0.200	0.0020	mg/kg	0.100	ND	200	70-130	61.1	30	QM-07
Toluene	0.410	0.0050	"	0.100	0.0398	370	70-130	69.7	30	QM-07
Ethylbenzene	0.141	0.0050	"	0.100	0.0103	130	70-130	17.9	30	
m,p-Xylene	0.326	0.010	"	0.200	0.0342	146	70-130	15.7	30	QM-07
o-Xylene	0.169	0.0050	"	0.100	0.0209	148	70-130	18.4	30	QM-07
1,2,4-Trimethylbenzene	0.114	0.0050	"	0.100	0.0203	94.0	70-130	23.7	30	
1,3,5-Trimethylbenzene	0.0823	0.0050	"	0.100	0.00540	76.9	70-130	1.80	30	
Naphthalene	0.0598	0.0038	"	0.100	ND	59.8	70-130	10.7	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0426		"	0.0400		106	50-150			

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Project: PDC - Raindance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0954 - EPA 3550A

Blank (BHC0954-BLK1)

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	15.1		"	12.5		121	30-150			

LCS (BHC0954-BS1)

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	590	50	mg/kg	500		118	70-130			
Surrogate: o-Terphenyl	13.9		"	12.5		111	30-150			

Matrix Spike (BHC0954-MS1)

Source: 2403378-01

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	660	50	mg/kg	500	7.69	130	70-130			
Surrogate: o-Terphenyl	13.2		"	12.5		106	30-150			

Matrix Spike Dup (BHC0954-MSD1)

Source: 2403378-01

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	561	50	mg/kg	500	7.69	111	70-130	16.2	20	
Surrogate: o-Terphenyl	12.5		"	12.5		100	30-150			

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PO Box 1289
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Project: PDC - Raintance
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0975 - EPA 5030 Soil MS

Blank (BHC0975-BLK1)

Prepared: 03/26/24 Analyzed: 03/27/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0356		"	0.0333		107	40-150			
Surrogate: Fluoranthene-d10	0.0353		"	0.0333		106	40-150			

LCS (BHC0975-BS1)

Prepared: 03/26/24 Analyzed: 03/27/24

Acenaphthene	0.0260	0.00500	mg/kg	0.0333		77.9	31-137			
Anthracene	0.0258	0.00500	"	0.0333		77.3	30-120			
Benzo (a) anthracene	0.0246	0.00500	"	0.0333		73.7	30-120			
Benzo (a) pyrene	0.0225	0.00500	"	0.0333		67.6	30-120			
Benzo (b) fluoranthene	0.0237	0.00500	"	0.0333		71.2	30-120			
Benzo (k) fluoranthene	0.0243	0.00500	"	0.0333		73.0	30-120			
Chrysene	0.0252	0.00500	"	0.0333		75.6	30-120			
Dibenz (a,h) anthracene	0.0215	0.00500	"	0.0333		64.5	30-120			
Fluoranthene	0.0249	0.00500	"	0.0333		74.7	30-120			
Fluorene	0.0188	0.00500	"	0.0333		56.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0164	0.00500	"	0.0333		49.3	30-120			
Pyrene	0.0271	0.00500	"	0.0333		81.4	35-142			
1-Methylnaphthalene	0.0257	0.00500	"	0.0333		77.1	35-142			
2-Methylnaphthalene	0.0229	0.00500	"	0.0333		68.6	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0286		"	0.0333		85.8	40-150			
Surrogate: Fluoranthene-d10	0.0240		"	0.0333		72.1	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0975 - EPA 5030 Soil MS

Matrix Spike (BHC0975-MS1)

Source: 2403340-01

Prepared: 03/26/24 Analyzed: 03/27/24

Acenaphthene	0.0262	0.00500	mg/kg	0.0333	ND	78.5	31-137				
Anthracene	0.0263	0.00500	"	0.0333	ND	79.0	30-120				
Benzo (a) anthracene	0.0259	0.00500	"	0.0333	ND	77.7	30-120				
Benzo (a) pyrene	0.0238	0.00500	"	0.0333	ND	71.4	30-120				
Benzo (b) fluoranthene	0.0245	0.00500	"	0.0333	ND	73.6	30-120				
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.9	30-120				
Chrysene	0.0265	0.00500	"	0.0333	ND	79.6	30-120				
Dibenz (a,h) anthracene	0.0221	0.00500	"	0.0333	ND	66.2	30-120				
Fluoranthene	0.0261	0.00500	"	0.0333	ND	78.4	30-120				
Fluorene	0.0218	0.00500	"	0.0333	ND	65.4	30-120				
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.3	30-120				
Pyrene	0.0278	0.00500	"	0.0333	ND	83.5	35-142				
1-Methylnaphthalene	0.0242	0.00500	"	0.0333	ND	72.6	15-130				
2-Methylnaphthalene	0.0282	0.00500	"	0.0333	ND	84.5	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0262		"	0.0333		78.6	40-150				
Surrogate: Fluoranthene-d10	0.0252		"	0.0333		75.5	40-150				

Matrix Spike Dup (BHC0975-MSD1)

Source: 2403340-01

Prepared: 03/26/24 Analyzed: 03/27/24

Acenaphthene	0.0214	0.00500	mg/kg	0.0333	ND	64.2	31-137	20.0	30
Anthracene	0.0220	0.00500	"	0.0333	ND	65.9	30-120	18.1	30
Benzo (a) anthracene	0.0223	0.00500	"	0.0333	ND	66.9	30-120	14.9	30
Benzo (a) pyrene	0.0205	0.00500	"	0.0333	ND	61.4	30-120	15.0	30
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	13.8	30
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.6	30-120	15.0	30
Chrysene	0.0224	0.00500	"	0.0333	ND	67.3	30-120	16.7	30
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.7	30-120	15.4	30
Fluoranthene	0.0222	0.00500	"	0.0333	ND	66.6	30-120	16.2	30
Fluorene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	18.5	30
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120	14.1	30
Pyrene	0.0231	0.00500	"	0.0333	ND	69.4	35-142	18.5	30
1-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.6	15-130	10.2	50
2-Methylnaphthalene	0.0244	0.00500	"	0.0333	ND	73.3	15-130	14.2	50
Surrogate: 2-Methylnaphthalene-d10	0.0212		"	0.0333		63.7	40-150		
Surrogate: Fluoranthene-d10	0.0223		"	0.0333		66.8	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

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 BHC0971 - EPA 3050B

Blank (BHC0971-BLK1)

Prepared: 03/26/24 Analyzed: 03/29/24

Boron ND 2.00 mg/L

LCS (BHC0971-BS1)

Prepared: 03/26/24 Analyzed: 03/29/24

Boron 4.84 2.00 mg/L 5.00 96.8 80-120

Duplicate (BHC0971-DUP1)

Source: 2403378-01

Prepared: 03/26/24 Analyzed: 03/29/24

Boron 0.0858 2.00 mg/L 0.0926 7.58 20

Matrix Spike (BHC0971-MS1)

Source: 2403378-01

Prepared: 03/26/24 Analyzed: 03/29/24

Boron 5.10 2.00 mg/L 5.00 0.0926 100 75-125

Matrix Spike Dup (BHC0971-MSD1)

Source: 2403378-01

Prepared: 03/26/24 Analyzed: 03/29/24

Boron 5.04 2.00 mg/L 5.00 0.0926 99.0 75-125 1.05 25

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PO Box 1289
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Project: PDC - Rairdance
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

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 BHC0968 - EPA 3050B

Blank (BHC0968-BLK1)

Prepared: 03/26/24 Analyzed: 03/28/24

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 (BHC0968-BS1)

Prepared: 03/26/24 Analyzed: 03/28/24

Arsenic	41.5	0.200	mg/kg wet	40.0	104	80-120
Barium	42.3	0.400	"	40.0	106	80-120
Cadmium	2.01	0.200	"	2.00	100	80-120
Copper	39.4	0.400	"	40.0	98.5	80-120
Lead	20.4	0.200	"	20.0	102	80-120
Nickel	39.1	0.400	"	40.0	97.7	80-120
Silver	2.01	0.0200	"	2.00	100	80-120
Zinc	39.7	0.400	"	40.0	99.2	80-120
Selenium	4.05	0.260	"	4.00	101	80-120

Duplicate (BHC0968-DUP1)

Source: 2403378-01

Prepared: 03/26/24 Analyzed: 03/28/24

Arsenic	2.91	0.200	mg/kg dry	6.80	80.1	20	QR-04
Barium	64.7	0.400	"	103	45.3	20	QR-04
Cadmium	0.147	0.200	"	0.316	73.0	20	QR-01
Copper	5.06	0.400	"	4.97	1.88	20	
Lead	4.88	0.200	"	6.42	27.3	20	QR-04
Nickel	3.92	0.400	"	4.39	11.3	20	
Silver	0.0201	0.0200	"	0.0282	33.3	20	QR-01
Zinc	16.1	0.400	"	19.0	16.5	20	
Selenium	0.338	0.260	"	1.10	106	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 - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

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 BHC0968 - EPA 3050B

Matrix Spike (BHC0968-MS1)		Source: 2403378-01			Prepared: 03/26/24 Analyzed: 03/28/24						
Arsenic	49.7	0.200	mg/kg dry	44.7	6.80	95.9	75-125				
Barium	108	0.400	"	44.7	103	12.8	75-125				QM-05
Cadmium	2.40	0.200	"	2.24	0.316	93.1	75-125				
Copper	35.3	0.400	"	44.7	4.97	67.9	75-125				QM-05
Lead	27.2	0.200	"	22.4	6.42	92.7	75-125				
Nickel	34.6	0.400	"	44.7	4.39	67.5	75-125				QM-05
Silver	2.21	0.0200	"	2.24	0.0282	97.5	75-125				
Zinc	47.5	0.400	"	44.7	19.0	63.8	75-125				QM-05
Selenium	5.59	0.260	"	4.47	1.10	100	75-125				

Matrix Spike Dup (BHC0968-MSD1)		Source: 2403378-01			Prepared: 03/26/24 Analyzed: 03/28/24						
Arsenic	49.1	0.200	mg/kg dry	44.7	6.80	94.7	75-125	1.08	25		
Barium	108	0.400	"	44.7	103	11.5	75-125	0.515	25		QM-05
Cadmium	2.37	0.200	"	2.24	0.316	92.1	75-125	0.937	25		
Copper	36.0	0.400	"	44.7	4.97	69.5	75-125	2.04	25		QM-05
Lead	27.1	0.200	"	22.4	6.42	92.4	75-125	0.254	25		
Nickel	35.3	0.400	"	44.7	4.39	69.1	75-125	2.02	25		QM-05
Silver	2.17	0.0200	"	2.24	0.0282	95.9	75-125	1.65	25		
Zinc	48.4	0.400	"	44.7	19.0	65.8	75-125	1.94	25		QM-05
Selenium	5.27	0.260	"	4.47	1.10	93.2	75-125	5.99	25		

Post Spike (BHC0968-PS1)		Source: 2403378-01			Prepared: 03/26/24 Analyzed: 03/28/24						
Arsenic	113		ug/l	100	15.2	97.4	75-125				
Barium	313		"	100	229	83.4	75-125				
Cadmium	5.51		"	5.00	0.707	96.1	75-125				
Copper	78.6		"	100	11.1	67.5	75-125				QM-07
Lead	62.6		"	50.0	14.4	96.5	75-125				
Nickel	77.5		"	100	9.82	67.7	75-125				QM-07
Silver	4.96		"	5.00	0.0630	97.9	75-125				
Zinc	113		"	100	42.5	70.7	75-125				QM-07
Selenium	12.1		"	10.0	2.46	96.1	75-125				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

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 BHC0961 - 3060A Mod

Blank (BHC0961-BLK1)

Prepared: 03/26/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0961-BS1)

Prepared: 03/26/24 Analyzed: 03/29/24

Chromium, Hexavalent 24.5 0.30 mg/kg wet 25.0 98.0 80-120

Duplicate (BHC0961-DUP1)

Source: 2402208-02

Prepared: 03/26/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0961-MS1)

Source: 2402208-02

Prepared: 03/26/24 Analyzed: 03/29/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 28.5 ND 97.4 75-125

Matrix Spike Dup (BHC0961-MSD1)

Source: 2402208-02

Prepared: 03/26/24 Analyzed: 03/29/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 28.5 ND 97.4 75-125 0.00 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 - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

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 BHD0021 - General Preparation

Blank (BHD0021-BLK1)

Prepared: 04/01/24 Analyzed: 05/14/24

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

LCS (BHD0021-BS1)

Prepared: 04/01/24 Analyzed: 05/14/24

Calcium	5.73	0.0500	mg/L wet	5.00	115	70-130
Magnesium	5.24	0.0500	"	5.00	105	70-130
Sodium	4.99	0.0500	"	5.00	99.9	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 - Raindance	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	05/15/24 15:59

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 BHC0963 - General Preparation

Duplicate (BHC0963-DUP1)		Source: 2403378-01	Prepared: 03/26/24	Analyzed: 03/28/24
% Solids	90.4	%	89.5	1.04 20

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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 - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

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 BHD0023 - General Preparation

Blank (BHD0023-BLK1)

Prepared: 04/01/24 Analyzed: 04/02/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0023-BS1)

Prepared: 04/01/24 Analyzed: 04/02/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHD0023-DUP1)

Source: 2403269-01

Prepared: 04/01/24 Analyzed: 04/02/24

Specific Conductance (EC) 0.222 0.0100 mmhos/cm 0.225 1.39 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 - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

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 BHD0022 - General Preparation

LCS (BHD0022-BS1)

Prepared: 04/01/24 Analyzed: 04/02/24

pH	9.22	pH Units	9.18	100	95-105
----	------	----------	------	-----	--------

Duplicate (BHD0022-DUP1)

Source: 2403269-01

Prepared: 04/01/24 Analyzed: 04/02/24

pH	8.16	pH Units	8.31	1.82	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 - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/15/24 15:59

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 22, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: PDC - Raindance FC Pad

Work Order #2403396

Enclosed are the results of analyses for samples received by Summit Scientific on 03/26/24 17:30. 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 fluid and cursive, written in a professional style.

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS-01 4FT	2403396-01	Soil	03/26/24 00:00	03/26/24 17:30
FS-02 4FT	2403396-02	Soil	03/26/24 00:00	03/26/24 17:30
SS-18 2FT	2403396-03	Soil	03/26/24 00:00	03/26/24 17:30
SS-19 2FT	2403396-04	Soil	03/26/24 00:00	03/26/24 17:30
SS-20 2FT	2403396-05	Soil	03/26/24 00:00	03/26/24 17:30
SS-21 3FT	2403396-06	Soil	03/26/24 00:00	03/26/24 17:30

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.

Summit Scientific

S₂

2403396

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

Page 1 of 1

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail: PDC TEAM

City/State/Zip:

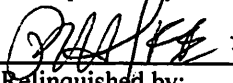
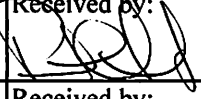
Phone:

Project Name: RAINDANCE FC 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,RRO	PAHs	pH, EC, SAR	Boron	9/15-l metals	Arsenic	BTEXN + TMBs	TDS, Cl, Su			
1	FS-01 4 FT	3/26/24		2			✓			✓				✓	✓	✓	✓	✓						
2	FS-02 4 FT																							
3	SS-18 2 FT																							
4	SS-19 2 FT																							
5	SS-20 2 FT																							
6	SS-21 3 FT	✓		✓			✓			✓				✓	✓	✓	✓	✓						
7																								
8																								
9																								
10																								

Relinquished by: 	Date/Time: 3/26/24 1730	Received by: 	Date/Time: 3/26/24 1730	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard 48 hours <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 11.4 Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2403396Client: TremontClient Project ID: Raindancer FC 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"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

11.4

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OUTSIDE
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
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 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 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

AS

3/26/24

S₂



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

FS-01 4FT
2403396-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0992	03/26/24	03/26/24	EPA 8260B	
Toluene	0.033	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.015	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: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0364	90.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0990	03/26/24	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.10	32.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

FS-01 4FT
2403396-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	0.00621	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	0.00701	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0120	0.00500	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0338	101 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0232	69.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC1008	03/27/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - Rairdance FC Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/22/24 09:21

FS-01 4FT
2403396-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.63	0.200	mg/kg dry	1	BHD0404	04/12/24	04/19/24	EPA 6020B
Barium	78.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.39	0.400	"	"	"	"	"	"
Lead	8.44	0.200	"	"	"	"	"	"
Nickel	7.37	0.400	"	"	"	"	"	"
Silver	0.0379	0.0200	"	"	"	"	"	"
Zinc	28.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC1005	03/27/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.9	0.0500	mg/L dry	1	BHD0056	04/02/24	05/03/24	EPA 6020B	
Magnesium	21.5	0.0500	"	"	"	"	"	"	
Sodium	48.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.41	0.00100	units	1	BHE0136	05/04/24	05/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henahan

Reported:
05/22/24 09:21

FS-01 4FT
2403396-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.8		%	1	BHC1001	03/27/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.744	0.0100	mmhos/cm	1	BHD0058	04/02/24	04/03/24	EPA 120.1	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHD0057	04/02/24	04/03/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

FS-02 4FT
2403396-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0992	03/26/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0368	91.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0990	03/26/24	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	3.86	30.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

FS-02 4FT
2403396-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0345	103 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0217	65.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC1008	03/27/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

FS-02 4FT
2403396-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.80	0.180	mg/kg dry	1	BHD0404	04/12/24	04/19/24	EPA 6020B
Barium	80.7	0.360	"	"	"	"	"	"
Cadmium	0.215	0.180	"	"	"	"	"	"
Copper	7.96	0.360	"	"	"	"	"	"
Lead	8.36	0.180	"	"	"	"	"	"
Nickel	7.39	0.360	"	"	"	"	"	"
Silver	0.0296	0.0180	"	"	"	"	"	"
Zinc	37.8	0.360	"	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC1005	03/27/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	344	0.0500	mg/L dry	1	BHD0056	04/02/24	05/03/24	EPA 6020B	
Magnesium	162	0.0500	"	"	"	"	"	"	
Sodium	125	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.39	0.00100	units	1	BHE0136	05/04/24	05/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/26/24 00:00**

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

Reported:
05/22/24 09:21

FS-02 4FT
2403396-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.3	%	1	BHC1001	03/27/24	03/28/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.00	0.0100	mmhos/cm	1	BHD0058	04/02/24	04/03/24	EPA 120.1	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BHD0057	04/02/24	04/03/24	EPA 9045D	

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Project: PDC - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/22/24 09:21

SS-18 2FT
2403396-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0992	03/26/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0344	86.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0990	03/26/24	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.58	36.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

SS-18 2FT
2403396-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0352	106 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0234	70.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC1008	03/27/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad
Project Number: [none]
Project Manager: Paul Henchan

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SS-18 2FT
2403396-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	3.22	0.200	mg/kg dry	1	BHD0404	04/12/24	04/19/24	EPA 6020B
Barium	74.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.77	0.400	"	"	"	"	"	"
Lead	5.93	0.200	"	"	"	"	"	"
Nickel	5.57	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	20.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC1005	03/27/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	369	0.0500	mg/L dry	1	BHD0056	04/02/24	05/03/24	EPA 6020B	
Magnesium	158	0.0500	"	"	"	"	"	"	
Sodium	85.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.938	0.00100	units	1	BHE0136	05/04/24	05/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henahan

Reported:
05/22/24 09:21

SS-18 2FT
2403396-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.2		%	1	BHC1001	03/27/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.79	0.0100	mmhos/cm	1	BHD0058	04/02/24	04/03/24	EPA 120.1	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BHD0057	04/02/24	04/03/24	EPA 9045D	

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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/22/24 09:21

SS-19 2FT
2403396-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0992	03/26/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0990	03/26/24	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.44	35.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

SS-19 2FT
2403396-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0337	101 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0250	75.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC1008	03/27/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/22/24 09:21

SS-19 2FT
2403396-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.40	0.200	mg/kg dry	1	BHD0404	04/12/24	04/19/24	EPA 6020B
Barium	37.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	6.38	0.400	"	"	"	"	"	"
Lead	7.92	0.200	"	"	"	"	"	"
Nickel	4.90	0.400	"	"	"	"	"	"
Silver	0.0367	0.0200	"	"	"	"	"	"
Zinc	36.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC1005	03/27/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.1	0.0500	mg/L dry	1	BHD0056	04/02/24	05/03/24	EPA 6020B	
Magnesium	10.6	0.0500	"	"	"	"	"	"	
Sodium	6.67	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.213	0.00100	units	1	BHE0136	05/04/24	05/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

SS-19 2FT
2403396-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.2		%	1	BHC1001	03/27/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.255	0.0100	mmhos/cm	1	BHD0058	04/02/24	04/03/24	EPA 120.1	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BHD0057	04/02/24	04/03/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/22/24 09:21

SS-20 2FT
2403396-05 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0992	03/26/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0362	90.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0990	03/26/24	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.30	34.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

SS-20 2FT
2403396-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0338	101 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC1008	03/27/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Rairdance FC Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/22/24 09:21

SS-20 2FT
2403396-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.43	0.200	mg/kg dry	1	BHD0404	04/12/24	04/19/24	EPA 6020B
Barium	59.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	9.37	0.400	"	"	"	"	"	"
Lead	7.62	0.200	"	"	"	"	"	"
Nickel	9.27	0.400	"	"	"	"	"	"
Silver	0.0441	0.0200	"	"	"	"	"	"
Zinc	35.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC1005	03/27/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	88.1	0.0500	mg/L dry	1	BHD0056	04/02/24	05/03/24	EPA 6020B	
Magnesium	19.2	0.0500	"	"	"	"	"	"	
Sodium	5.35	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.135	0.00100	units	1	BHE0136	05/04/24	05/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henahan

Reported:
05/22/24 09:21

SS-20 2FT
2403396-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	1	BHC1001	03/27/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.683	0.0100	mmhos/cm	1	BHD0058	04/02/24	04/03/24	EPA 120.1	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHD0057	04/02/24	04/03/24	EPA 9045D	

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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

SS-21 3FT
2403396-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0992	03/26/24	03/27/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0371	92.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0990	03/26/24	03/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.69	37.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance FC Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

SS-21 3FT
2403396-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1021	03/27/24	03/29/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0339	102 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	64.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC1008	03/27/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

SS-21 3FT
2403396-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.03	0.200	mg/kg dry	1	BHD0404	04/12/24	04/19/24	EPA 6020B
Barium	72.3	0.400	"	"	"	"	"	"
Cadmium	0.231	0.200	"	"	"	"	"	"
Copper	15.8	0.400	"	"	"	"	"	"
Lead	13.9	0.200	"	"	"	"	"	"
Nickel	16.1	0.400	"	"	"	"	"	"
Silver	0.0826	0.0200	"	"	"	"	"	"
Zinc	64.4	0.400	"	"	"	"	"	"
Selenium	0.282	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC1005	03/27/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	101	0.0500	mg/L dry	1	BHD0056	04/02/24	05/03/24	EPA 6020B	
Magnesium	46.5	0.0500	"	"	"	"	"	"	
Sodium	46.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.967	0.00100	units	1	BHE0136	05/04/24	05/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/22/24 09:21

SS-21 3FT
2403396-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	75.6	%	1	BHC1001	03/27/24	03/28/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.07	0.0100	mmhos/cm	1	BHD0058	04/02/24	04/03/24	EPA 120.1	

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

Date Sampled: **03/26/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BHD0057	04/02/24	04/03/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0992 - EPA 5030 Soil MS

Blank (BHC0992-BLK1)

Prepared: 03/26/24 Analyzed: 03/27/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.6	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

LCS (BHC0992-BS1)

Prepared: 03/26/24 Analyzed: 03/27/24

Benzene	0.115	0.0020	mg/kg	0.100		115	70-130			
Toluene	0.110	0.0050	"	0.100		110	70-130			
Ethylbenzene	0.0950	0.0050	"	0.100		95.0	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.6	70-130			
o-Xylene	0.0925	0.0050	"	0.100		92.5	70-130			
1,2,4-Trimethylbenzene	0.0871	0.0050	"	0.100		87.1	70-130			
1,3,5-Trimethylbenzene	0.0881	0.0050	"	0.100		88.1	70-130			
Naphthalene	0.0727	0.0038	"	0.100		72.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0369		"	0.0400		92.3	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

Matrix Spike (BHC0992-MS1)

Source: 2403391-01

Prepared: 03/26/24 Analyzed: 03/27/24

Benzene	0.102	0.0020	mg/kg	0.100	ND	102	70-130			
Toluene	0.0906	0.0050	"	0.100	ND	90.6	70-130			
Ethylbenzene	0.0767	0.0050	"	0.100	ND	76.7	70-130			
m,p-Xylene	0.159	0.010	"	0.200	0.0169	71.0	70-130			
o-Xylene	0.127	0.0050	"	0.100	0.0582	68.7	70-130			QM-05
1,2,4-Trimethylbenzene	0.0771	0.0050	"	0.100	0.0283	48.8	70-130			QM-05
1,3,5-Trimethylbenzene	0.0785	0.0050	"	0.100	0.0285	50.0	70-130			QM-05
Naphthalene	0.0590	0.0038	"	0.100	0.0242	34.8	70-130			QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0400		94.3	50-150			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		103	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raintance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0992 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0992-MSD1)	Source: 2403391-01			Prepared: 03/26/24 Analyzed: 03/27/24						
Benzene	0.0956	0.0020	mg/kg	0.100	ND	95.6	70-130	6.35	30	
Toluene	0.0842	0.0050	"	0.100	ND	84.2	70-130	7.42	30	
Ethylbenzene	0.0739	0.0050	"	0.100	ND	73.9	70-130	3.71	30	
m,p-Xylene	0.157	0.010	"	0.200	0.0169	70.0	70-130	1.33	30	
o-Xylene	0.123	0.0050	"	0.100	0.0582	64.6	70-130	3.27	30	QM-05
1,2,4-Trimethylbenzene	0.0788	0.0050	"	0.100	0.0283	50.5	70-130	2.15	30	QM-05
1,3,5-Trimethylbenzene	0.0775	0.0050	"	0.100	0.0285	49.0	70-130	1.23	30	QM-05
Naphthalene	0.0655	0.0038	"	0.100	0.0242	41.2	70-130	10.4	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0345		"	0.0400		86.2	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0451		"	0.0400		113	50-150			

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PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0990 - EPA 3550A

Blank (BHC0990-BLK1)

Prepared: 03/26/24 Analyzed: 03/27/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	5.30		"	12.5		42.4	30-150			

LCS (BHC0990-BS1)

Prepared: 03/26/24 Analyzed: 03/27/24

C10-C28 (DRO)	486	50	mg/kg	500		97.2	70-130			
Surrogate: o-Terphenyl	5.26		"	12.5		42.1	30-150			

Matrix Spike (BHC0990-MS1)

Source: 2403391-01

Prepared: 03/26/24 Analyzed: 03/27/24

C10-C28 (DRO)	1690	50	mg/kg	500	1780	NR	70-130			QM-05
Surrogate: o-Terphenyl	5.00		"	12.5		40.0	30-150			

Matrix Spike Dup (BHC0990-MSD1)

Source: 2403391-01

Prepared: 03/26/24 Analyzed: 03/27/24

C10-C28 (DRO)	2100	50	mg/kg	500	1780	64.4	70-130	21.7	20	QM-05
Surrogate: o-Terphenyl	5.64		"	12.5		45.1	30-150			

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PO Box 1289
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Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC1021 - EPA 5030 Soil MS

Blank (BHC1021-BLK1)

Prepared: 03/27/24 Analyzed: 03/29/24

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0366		"	0.0333		110		40-150			
Surrogate: Fluoranthene-d10	0.0340		"	0.0333		102		40-150			

LCS (BHC1021-BS1)

Prepared: 03/27/24 Analyzed: 03/29/24

Acenaphthene	0.0341	0.00500	mg/kg	0.0333		102		31-137			
Anthracene	0.0323	0.00500	"	0.0333		97.0		30-120			
Benzo (a) anthracene	0.0323	0.00500	"	0.0333		97.0		30-120			
Benzo (a) pyrene	0.0300	0.00500	"	0.0333		90.1		30-120			
Benzo (b) fluoranthene	0.0317	0.00500	"	0.0333		95.2		30-120			
Benzo (k) fluoranthene	0.0347	0.00500	"	0.0333		104		30-120			
Chrysene	0.0346	0.00500	"	0.0333		104		30-120			
Dibenz (a,h) anthracene	0.0298	0.00500	"	0.0333		89.5		30-120			
Fluoranthene	0.0320	0.00500	"	0.0333		96.0		30-120			
Fluorene	0.0327	0.00500	"	0.0333		98.1		30-120			
Indeno (1,2,3-cd) pyrene	0.0305	0.00500	"	0.0333		91.6		30-120			
Pyrene	0.0381	0.00500	"	0.0333		114		35-142			
1-Methylnaphthalene	0.0457	0.00500	"	0.0333		137		35-142			
2-Methylnaphthalene	0.0345	0.00500	"	0.0333		104		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0459		"	0.0333		138		40-150			
Surrogate: Fluoranthene-d10	0.0312		"	0.0333		93.5		40-150			

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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC1021 - EPA 5030 Soil MS

Matrix Spike (BHC1021-MS1)

Source: 2403357-01

Prepared: 03/27/24 Analyzed: 03/29/24

Acenaphthene	0.0225	0.00500	mg/kg	0.0333	ND	67.4	31-137		
Anthracene	0.0218	0.00500	"	0.0333	ND	65.4	30-120		
Benzo (a) anthracene	0.0246	0.00500	"	0.0333	ND	73.9	30-120		
Benzo (a) pyrene	0.0222	0.00500	"	0.0333	0.00503	51.7	30-120		
Benzo (b) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3	30-120		
Benzo (k) fluoranthene	0.0195	0.00500	"	0.0333	ND	58.4	30-120		
Chrysene	0.0233	0.00500	"	0.0333	ND	69.8	30-120		
Dibenz (a,h) anthracene	0.0270	0.00500	"	0.0333	ND	80.9	30-120		
Fluoranthene	0.0227	0.00500	"	0.0333	0.00513	52.8	30-120		
Fluorene	0.0228	0.00500	"	0.0333	ND	68.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0270	0.00500	"	0.0333	ND	80.9	30-120		
Pyrene	0.0262	0.00500	"	0.0333	ND	78.6	35-142		
1-Methylnaphthalene	0.0310	0.00500	"	0.0333	ND	92.9	15-130		
2-Methylnaphthalene	0.0322	0.00500	"	0.0333	ND	96.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0284		"	0.0333		85.3	40-150		
Surrogate: Fluoranthene-d10	0.0218		"	0.0333		65.5	40-150		

Matrix Spike Dup (BHC1021-MSD1)

Source: 2403357-01

Prepared: 03/27/24 Analyzed: 03/29/24

Acenaphthene	0.0208	0.00500	mg/kg	0.0333	ND	62.4	31-137	7.73	30
Anthracene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	12.5	30
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.4	30-120	15.3	30
Benzo (a) pyrene	0.0199	0.00500	"	0.0333	0.00503	44.5	30-120	11.4	30
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	15.2	30
Benzo (k) fluoranthene	0.0162	0.00500	"	0.0333	ND	48.6	30-120	18.4	30
Chrysene	0.0201	0.00500	"	0.0333	ND	60.3	30-120	14.6	30
Dibenz (a,h) anthracene	0.0261	0.00500	"	0.0333	ND	78.3	30-120	3.33	30
Fluoranthene	0.0197	0.00500	"	0.0333	0.00513	43.8	30-120	14.2	30
Fluorene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	8.22	30
Indeno (1,2,3-cd) pyrene	0.0257	0.00500	"	0.0333	ND	77.2	30-120	4.61	30
Pyrene	0.0219	0.00500	"	0.0333	ND	65.7	35-142	17.9	30
1-Methylnaphthalene	0.0245	0.00500	"	0.0333	ND	73.5	15-130	23.3	50
2-Methylnaphthalene	0.0254	0.00500	"	0.0333	ND	76.1	15-130	23.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0223		"	0.0333		66.8	40-150		
Surrogate: Fluoranthene-d10	0.0196		"	0.0333		58.7	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

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 BHC1008 - EPA 3050B

Blank (BHC1008-BLK1)

Prepared: 03/27/24 Analyzed: 05/21/24

Boron ND 2.00 mg/L

LCS (BHC1008-BS1)

Prepared: 03/27/24 Analyzed: 05/21/24

Boron 5.31 2.00 mg/L 5.00 106 80-120

Duplicate (BHC1008-DUP1)

Source: 2403391-01

Prepared: 03/27/24 Analyzed: 05/21/24

Boron 0.251 2.00 mg/L 0.270 7.53 20

Matrix Spike (BHC1008-MS1)

Source: 2403391-01

Prepared: 03/27/24 Analyzed: 05/21/24

Boron 5.03 2.00 mg/L 5.00 0.270 95.3 75-125

Matrix Spike Dup (BHC1008-MSD1)

Source: 2403391-01

Prepared: 03/27/24 Analyzed: 05/21/24

Boron 5.04 2.00 mg/L 5.00 0.270 95.5 75-125 0.178 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

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 BHD0404 - EPA 3050B

Blank (BHD0404-BLK1)

Prepared: 04/12/24 Analyzed: 04/18/24

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 (BHD0404-BS1)

Prepared: 04/12/24 Analyzed: 04/18/24

Arsenic	39.0	0.200	mg/kg wet	40.0	97.6	80-120
Barium	38.7	0.400	"	40.0	96.7	80-120
Cadmium	1.94	0.200	"	2.00	97.2	80-120
Copper	38.2	0.400	"	40.0	95.5	80-120
Lead	18.9	0.200	"	20.0	94.4	80-120
Nickel	38.1	0.400	"	40.0	95.2	80-120
Silver	1.89	0.0200	"	2.00	94.5	80-120
Zinc	38.3	0.400	"	40.0	95.7	80-120
Selenium	3.91	0.260	"	4.00	97.7	80-120

Duplicate (BHD0404-DUP1)

Source: 2403391-01

Prepared: 04/12/24 Analyzed: 04/19/24

Arsenic	2.38	0.181	mg/kg dry	1.90	22.4	20	QR-04
Barium	202	0.362	"	180	11.6	20	
Cadmium	0.201	0.181	"	0.150	29.0	20	QR-01
Copper	4.79	0.362	"	4.15	14.3	20	
Lead	6.83	0.181	"	4.63	38.5	20	QR-04
Nickel	5.30	0.362	"	4.38	19.0	20	
Silver	0.0215	0.0181	"	0.0201	6.81	20	
Zinc	20.8	0.362	"	18.3	12.9	20	
Selenium	ND	0.236	"	ND		20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

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 BHD0404 - EPA 3050B

Matrix Spike (BHD0404-MS1)

Source: 2403391-01

Prepared: 04/12/24 Analyzed: 04/19/24

Arsenic	41.1	0.200	mg/kg dry	41.6	1.90	94.3	75-125			
Barium	192	0.400	"	41.6	180	30.4	75-125			QM-07
Cadmium	2.14	0.200	"	2.08	0.150	96.0	75-125			
Copper	42.9	0.400	"	41.6	4.15	93.3	75-125			
Lead	23.3	0.200	"	20.8	4.63	90.0	75-125			
Nickel	43.1	0.400	"	41.6	4.38	93.1	75-125			
Silver	1.98	0.0200	"	2.08	0.0201	94.1	75-125			
Zinc	57.3	0.400	"	41.6	18.3	93.7	75-125			
Selenium	3.56	0.260	"	4.16	ND	85.7	75-125			

Matrix Spike Dup (BHD0404-MSD1)

Source: 2403391-01

Prepared: 04/12/24 Analyzed: 04/19/24

Arsenic	43.3	0.200	mg/kg dry	41.6	1.90	99.7	75-125	5.32	25	
Barium	200	0.400	"	41.6	180	49.3	75-125	4.00	25	QM-07
Cadmium	2.26	0.200	"	2.08	0.150	101	75-125	5.08	25	
Copper	45.1	0.400	"	41.6	4.15	98.6	75-125	5.09	25	
Lead	24.2	0.200	"	20.8	4.63	94.0	75-125	3.54	25	
Nickel	45.4	0.400	"	41.6	4.38	98.6	75-125	5.21	25	
Silver	2.07	0.0200	"	2.08	0.0201	98.6	75-125	4.60	25	
Zinc	59.7	0.400	"	41.6	18.3	99.5	75-125	4.11	25	
Selenium	3.74	0.260	"	4.16	ND	89.9	75-125	4.79	25	

Post Spike (BHD0404-PS1)

Source: 2403391-01

Prepared: 04/12/24 Analyzed: 04/19/24

Arsenic	105		ug/l	100	4.23	101	75-125			
Barium	517		"	100	400	116	75-125			
Cadmium	5.53		"	5.00	0.334	104	75-125			
Copper	109		"	100	9.24	99.6	75-125			
Lead	60.1		"	50.0	10.3	99.6	75-125			
Nickel	110		"	100	9.75	99.9	75-125			
Silver	5.24		"	5.00	0.0448	104	75-125			
Zinc	143		"	100	40.8	103	75-125			
Selenium	9.03		"	10.0	0.136	88.9	75-125			

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PO Box 1289
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Project: PDC - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

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 BHC1005 - 3060A Mod

Blank (BHC1005-BLK1)

Prepared: 03/27/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC1005-BS1)

Prepared: 03/27/24 Analyzed: 03/29/24

Chromium, Hexavalent 24.6 0.30 mg/kg wet 25.0 98.2 80-120

Duplicate (BHC1005-DUP1)

Source: 2403389-01

Prepared: 03/27/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC1005-MS1)

Source: 2403389-01

Prepared: 03/27/24 Analyzed: 03/29/24

Chromium, Hexavalent 31.1 0.30 mg/kg dry 31.2 ND 99.8 75-125

Matrix Spike Dup (BHC1005-MSD1)

Source: 2403389-01

Prepared: 03/27/24 Analyzed: 03/29/24

Chromium, Hexavalent 31.1 0.30 mg/kg dry 31.2 ND 99.8 75-125 0.00 20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

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 BHD0056 - General Preparation

Blank (BHD0056-BLK1)

Prepared: 04/02/24 Analyzed: 05/03/24

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

LCS (BHD0056-BS1)

Prepared: 04/02/24 Analyzed: 05/03/24

Calcium	5.82	0.0500	mg/L wet	5.00	116	70-130
Magnesium	5.09	0.0500	"	5.00	102	70-130
Sodium	5.03	0.0500	"	5.00	101	70-130

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

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

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

Batch BHC1001 - General Preparation

Duplicate (BHC1001-DUP1)		Source: 2312386-11		Prepared: 03/27/24 Analyzed: 03/28/24	
% Solids	92.6		%	92.7	0.129 20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

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

Summit Scientific

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

Batch BHD0058 - General Preparation

Blank (BHD0058-BLK1)

Prepared: 04/02/24 Analyzed: 04/03/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0058-BS1)

Prepared: 04/02/24 Analyzed: 04/03/24

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

Duplicate (BHD0058-DUP1)

Source: 2403276-01

Prepared: 04/02/24 Analyzed: 04/03/24

Specific Conductance (EC) 0.471 0.0100 mmhos/cm 0.481 2.08 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

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 BHD0057 - General Preparation

LCS (BHD0057-BS1)

Prepared: 04/02/24 Analyzed: 04/03/24

pH	9.26	pH Units	9.18	101	95-105
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Duplicate (BHD0057-DUP1)

Source: 2403276-01

Prepared: 04/02/24 Analyzed: 04/03/24

pH	8.08	pH Units	8.27	2.32	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 - Raindance FC Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/22/24 09:21

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 10, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

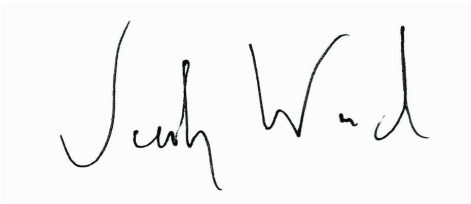
Wellington, CO 80549

RE: PDC - Raindance Pad

Work Order #2403443

Enclosed are the results of analyses for samples received by Summit Scientific on 03/28/24 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-22-N 1.5FT	2403443-01	Soil	03/28/24 00:00	03/28/24 17:30
SS-22-S 1.5FT	2403443-02	Soil	03/28/24 00:00	03/28/24 17:30
FS-22 2FT	2403443-03	Soil	03/28/24 00:00	03/28/24 17:30
SS-23-N 1.5FT	2403443-04	Soil	03/28/24 00:00	03/28/24 17:30
SS-23-S 1.5FT	2403443-05	Soil	03/28/24 00:00	03/28/24 17:30
FS-23 2FT	2403443-06	Soil	03/28/24 00:00	03/28/24 17:30
SS-24-N 2FT	2403443-07	Soil	03/28/24 00:00	03/28/24 17:30
SS-24-S 2FT	2403443-08	Soil	03/28/24 00:00	03/28/24 17:30
FS-24 3FT	2403443-09	Soil	03/28/24 00:00	03/28/24 17:30
SS-25-N 3FT	2403443-10	Soil	03/28/24 00:00	03/28/24 17:30
SS-25-S 3FT	2403443-11	Soil	03/28/24 00:00	03/28/24 17:30
FS-25 4FT	2403443-12	Soil	03/28/24 00:00	03/28/24 17:30
SS-26-N 3FT	2403443-13	Soil	03/28/24 00:00	03/28/24 17:30
SS-26-S 3FT	2403443-14	Soil	03/28/24 00:00	03/28/24 17:30
FS-26 4FT	2403443-15	Soil	03/28/24 00:00	03/28/24 17:30
SS-27-N 2FT	2403443-16	Soil	03/28/24 00:00	03/28/24 17:30
SS-27-S 2FT	2403443-17	Soil	03/28/24 00:00	03/28/24 17:30
FS-27 3FT	2403443-18	Soil	03/28/24 00:00	03/28/24 17:30
SS-28-N 2.5FT	2403443-19	Soil	03/28/24 00:00	03/28/24 17:30
SS-28-S 2.5FT	2403443-20	Soil	03/28/24 00:00	03/28/24 17:30
FS-28 3FT	2403443-21	Soil	03/28/24 00:00	03/28/24 17:30

Summit Scientific

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

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S₂

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

2403443-1

Page 1 of 3

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail: DDC TEAM

City/State/Zip:

Phone:

Project Name: RANDANCE 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,PRO	PAHs	pH, EC, SAR	Boron	915-1 metals	Arsenic	BTEXN + TMBs	TDS, Cl, Su	
1	SS-22-N 1.5 FT	3/28/24		2			✓			✓				✓	✓	✓	✓	✓				
2	SS-22-S 1.5 FT																					
3	FS-22 2 FT																					
4	SS-23-N 1.5 FT																					
5	SS-23-S 1.5 FT																					
6	FS-23 2 FT																					
7	SS-24-N 2 FT																					
8	SS-24-S 2 FT																					
9	FS-24 3 FT																					
10	SS-25-N 3 FT																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: 9.9 Samples Intact: <input checked="" type="checkbox"/> Yes No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Summit Scientific



4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

2403443-2

Page 2 of 3

Client: Fremont Environmental Inc.

Project Manager: Paul Henahan

Address:

E-Mail: POC

City/State/Zip:

Phone:

Project Name: RAINDANCE PAD

Sampler Name: HENAHAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested										Special Instructions			
					HCl	HNO3	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	SS-25-S 3 FT	3/28/24		2			✓			✓				✓	✓	✓	✓	✓								
2	FS-25 4 FT																									
3	SS-26-N 3 FT																									
4	SS-26-S 3 FT																									
5	FS-26 4 FT																									
6	SS-27-N 2 FT																									
7	SS-27-S 2 FT																									
8	FS-27 3 FT																									
9	SS-28-N 2.5 FT																									
10	SS-28-S 2.5 FT																									

Relinquished by:	Date/Time: 3/28/24	Received by:	Date/Time: 3/28/24 1730	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: 9.9 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Summit Scientific



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

2403443-3

Page 3 of 3

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail: PDC

City/State/Zip:

Phone:

Project Name: RAINDANCE P&D

Sampler Name: HENEHAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested										Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	915-1 metals	Arsenic	BTEXN+TMBs	TDS, Cl, Su				
1	FS-28 3CT	3/28/24		2			✓			✓				✓	✓	✓	✓	✓							
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
M. Henehan	3/28/24	[Signature]	3/28/24 1730	Same Day	✓	
				24 hours	—	
				48 hours	—	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
				Temperature Upon Receipt: 9.9		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Intact: Yes No		
				Yes		

S₂

3/3

Sample Receipt Checklist

S2 Work Order# 2403443Client: TranentClient Project ID: Reindance PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Sol/Solid

☒

Water

☐

Other

☐

Temp (°C)

9.9

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on 7.05
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
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 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

AS

3/28/24

BIO



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-22-N 1.5FT
2403443-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.20	mg/kg	100	BHC1065	03/28/24	03/28/24	EPA 8260B	R-05
Toluene	1.1	0.50	"	"	"	"	"	"	
Ethylbenzene	2.9	0.50	"	"	"	"	"	"	
Xylenes (total)	19	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	18	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.8	0.50	"	"	"	"	"	"	
Naphthalene	2.5	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	780	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0326	81.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0529	132 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0452	113 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	1400	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	300	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	14.9	119 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-22-N 1.5FT
2403443-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/29/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0114	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.288	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.269	0.00500	"	"	"	"	"	"	E

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0248	74.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-22-N 1.5FT
2403443-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.81	0.200	mg/kg dry	1	BHD0522	04/16/24	04/23/24	EPA 6020B
Barium	31.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.66	0.400	"	"	"	"	"	"
Lead	3.53	0.200	"	"	"	"	"	"
Nickel	3.37	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	13.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.1	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	5.75	0.0500	"	"	"	"	"	"	
Sodium	90.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.22	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 - Raindance Pad
Project Number: [none]
Project Manager: Paul Henahan

Reported:
05/10/24 12:45

SS-22-N 1.5FT
2403443-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BHD0071	04/03/24	04/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.951	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHD0164	04/05/24	04/08/24	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 - Raindance Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-22-S 1.5FT
2403443-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/28/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0448	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.2	81.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-22-S 1.5FT
2403443-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/29/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0223	67.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-22-S 1.5FT
2403443-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.14	0.181	mg/kg dry	1	BHD0522	04/16/24	04/23/24	EPA 6020B	
Barium	46.9	0.362	"	"	"	"	"	"	
Cadmium	0.216	0.181	"	"	"	"	"	"	
Copper	11.7	0.362	"	"	"	"	"	"	
Lead	11.4	0.181	"	"	"	"	"	"	
Nickel	6.42	0.362	"	"	"	"	"	"	
Silver	0.0723	0.0181	"	"	"	"	"	"	
Zinc	42.1	0.362	"	"	"	"	"	"	
Selenium	0.254	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	101	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	29.2	0.0500	"	"	"	"	"	"	
Sodium	10.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.239	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-22-S 1.5FT
2403443-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.7	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.00	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

FS-22 2FT
2403443-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/28/24	EPA 8260B	
Toluene	0.016	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.012	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: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0354	88.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0428	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.5	84.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

FS-22 2FT
2403443-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/29/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0143	42.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0165	49.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

FS-22 2FT
2403443-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.04	0.200	mg/kg dry	1	BHD0522	04/16/24	04/23/24	EPA 6020B
Barium	42.9	0.400	"	"	"	"	"	"
Cadmium	0.211	0.200	"	"	"	"	"	"
Copper	11.1	0.400	"	"	"	"	"	"
Lead	11.7	0.200	"	"	"	"	"	"
Nickel	6.88	0.400	"	"	"	"	"	"
Silver	0.0676	0.0200	"	"	"	"	"	"
Zinc	44.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.4	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	29.6	0.0500	"	"	"	"	"	"	
Sodium	10.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.252	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-22 2FT
2403443-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.8	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.888	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

SS-23-N 1.5FT
2403443-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/28/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0421	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0423	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.2	89.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-23-N 1.5FT
2403443-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/29/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0157	47.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-23-N 1.5FT
2403443-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.75	0.200	mg/kg dry	1	BHD0522	04/16/24	04/23/24	EPA 6020B	
Barium	51.2	0.400	"	"	"	"	"	"	
Cadmium	0.226	0.200	"	"	"	"	"	"	
Copper	12.9	0.400	"	"	"	"	"	"	
Lead	12.5	0.200	"	"	"	"	"	"	
Nickel	6.96	0.400	"	"	"	"	"	"	
Silver	0.0738	0.0200	"	"	"	"	"	"	
Zinc	49.0	0.400	"	"	"	"	"	"	
Selenium	0.288	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	117	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	31.5	0.0500	"	"	"	"	"	"	
Sodium	12.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.263	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-23-N 1.5FT
2403443-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.7	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-23-S 1.5FT
2403443-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/28/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0350	87.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0452	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.9	86.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-23-S 1.5FT
2403443-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/29/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-23-S 1.5FT
2403443-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.98	0.200	mg/kg dry	1	BHD0522	04/16/24	04/23/24	EPA 6020B
Barium	49.8	0.400	"	"	"	"	"	"
Cadmium	0.205	0.200	"	"	"	"	"	"
Copper	11.7	0.400	"	"	"	"	"	"
Lead	11.3	0.200	"	"	"	"	"	"
Nickel	6.85	0.400	"	"	"	"	"	"
Silver	0.0673	0.0200	"	"	"	"	"	"
Zinc	43.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.7	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	6.05	0.0500	"	"	"	"	"	"	
Sodium	8.31	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.335	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-23-S 1.5FT
2403443-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.0	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.327	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-23 2FT
2403443-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/28/24	EPA 8260B	
Toluene	0.022	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0058	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.029	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0078	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0279	69.8 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0443	111 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400	99.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	8.76	70.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-23 2FT
2403443-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0153	46.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0158	47.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-23 2FT
2403443-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.58	0.200	mg/kg dry	1	BHD0522	04/16/24	04/23/24	EPA 6020B
Barium	50.9	0.400	"	"	"	"	"	"
Cadmium	0.221	0.200	"	"	"	"	"	"
Copper	12.5	0.400	"	"	"	"	"	"
Lead	12.1	0.200	"	"	"	"	"	"
Nickel	6.88	0.400	"	"	"	"	"	"
Silver	0.0702	0.0200	"	"	"	"	"	"
Zinc	45.5	0.400	"	"	"	"	"	"
Selenium	0.262	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	99.0	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	37.3	0.0500	"	"	"	"	"	"	
Sodium	11.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.250	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-23 2FT
2403443-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.0	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.03	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.37		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

SS-24-N 2FT
2403443-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/28/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0333	83.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0449	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.61	68.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-24-N 2FT
2403443-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0360	108 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0232	69.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-24-N 2FT
2403443-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.18	0.179	mg/kg dry	1	BHD0522	04/16/24	04/23/24	EPA 6020B
Barium	54.0	0.357	"	"	"	"	"	"
Cadmium	0.215	0.179	"	"	"	"	"	"
Copper	13.4	0.357	"	"	"	"	"	"
Lead	12.7	0.179	"	"	"	"	"	"
Nickel	7.00	0.357	"	"	"	"	"	"
Silver	0.0726	0.0179	"	"	"	"	"	"
Zinc	49.2	0.357	"	"	"	"	"	"
Selenium	0.342	0.232	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	74.1	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	39.4	0.0500	"	"	"	"	"	"	
Sodium	10.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.248	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-24-N 2FT
2403443-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.7	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.869	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-24-S 2FT
2403443-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/28/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0317	79.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0460	115 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.89	71.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-24-S 2FT
2403443-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0269	80.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0201	60.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-24-S 2FT
2403443-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.95	0.200	mg/kg dry	1	BHD0522	04/16/24	04/23/24	EPA 6020B
Barium	39.1	0.400	"	"	"	"	"	"
Cadmium	0.223	0.200	"	"	"	"	"	"
Copper	14.7	0.400	"	"	"	"	"	"
Lead	13.7	0.200	"	"	"	"	"	"
Nickel	7.21	0.400	"	"	"	"	"	"
Silver	0.0929	0.0200	"	"	"	"	"	"
Zinc	54.6	0.400	"	"	"	"	"	"
Selenium	0.279	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	72.9	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	58.5	0.0500	"	"	"	"	"	"	
Sodium	73.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.55	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

SS-24-S 2FT
2403443-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.0	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.32	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

FS-24 3FT
2403443-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0330	82.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0462	115 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.90	71.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

FS-24 3FT
2403443-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0209	62.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-24 3FT
2403443-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.97	0.200	mg/kg dry	1	BHD0522	04/16/24	04/23/24	EPA 6020B	
Barium	38.3	0.400	"	"	"	"	"	"	
Cadmium	0.222	0.200	"	"	"	"	"	"	
Copper	11.8	0.400	"	"	"	"	"	"	
Lead	12.5	0.200	"	"	"	"	"	"	
Nickel	7.57	0.400	"	"	"	"	"	"	
Silver	0.0818	0.0200	"	"	"	"	"	"	
Zinc	48.3	0.400	"	"	"	"	"	"	
Selenium	0.295	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	84.3	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	71.5	0.0500	"	"	"	"	"	"	
Sodium	39.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.767	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-24 3FT
2403443-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.2	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.30	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

SS-25-N 3FT
2403443-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0305	76.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0453	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0419	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.74	69.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-25-N 3FT
2403443-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0239	71.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-25-N 3FT
2403443-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.86	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B
Barium	59.4	0.400	"	"	"	"	"	"
Cadmium	0.225	0.200	"	"	"	"	"	"
Copper	12.4	0.400	"	"	"	"	"	"
Lead	12.4	0.200	"	"	"	"	"	"
Nickel	7.06	0.400	"	"	"	"	"	"
Silver	0.0736	0.0200	"	"	"	"	"	"
Zinc	46.4	0.400	"	"	"	"	"	"
Selenium	0.373	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.7	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	43.6	0.0500	"	"	"	"	"	"	
Sodium	69.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.60	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-25-N 3FT
2403443-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.2	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.16	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-25-S 3FT
2403443-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0322	80.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0448	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.56	68.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-25-S 3FT
2403443-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0365	109 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0198	59.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

SS-25-S 3FT
2403443-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.03	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B
Barium	38.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	11.3	0.400	"	"	"	"	"	"
Lead	11.5	0.200	"	"	"	"	"	"
Nickel	7.08	0.400	"	"	"	"	"	"
Silver	0.0688	0.0200	"	"	"	"	"	"
Zinc	46.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.6	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	52.9	0.0500	"	"	"	"	"	"	
Sodium	57.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.33	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad
Project Number: [none]
Project Manager: Paul Henahan

Reported:
05/10/24 12:45

SS-25-S 3FT
2403443-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.9		%	1	BHD0071	04/03/24	04/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

FS-25 4FT
2403443-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0304	76.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0460	115 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	3.99	31.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-25 4FT
2403443-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0364	109 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

FS-25 4FT
2403443-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.12	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B
Barium	53.7	0.400	"	"	"	"	"	"
Cadmium	0.221	0.200	"	"	"	"	"	"
Copper	12.4	0.400	"	"	"	"	"	"
Lead	12.7	0.200	"	"	"	"	"	"
Nickel	6.88	0.400	"	"	"	"	"	"
Silver	0.0773	0.0200	"	"	"	"	"	"
Zinc	47.2	0.400	"	"	"	"	"	"
Selenium	0.343	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	104	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	58.6	0.0500	"	"	"	"	"	"	
Sodium	52.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-25 4FT
2403443-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.3	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.38	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

SS-26-N 3FT
2403443-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0306	76.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0459	115 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	3.84	30.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-26-N 3FT
2403443-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0307	92.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-26-N 3FT
2403443-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.71	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B
Barium	49.6	0.400	"	"	"	"	"	"
Cadmium	0.225	0.200	"	"	"	"	"	"
Copper	12.4	0.400	"	"	"	"	"	"
Lead	12.0	0.200	"	"	"	"	"	"
Nickel	6.89	0.400	"	"	"	"	"	"
Silver	0.0707	0.0200	"	"	"	"	"	"
Zinc	45.7	0.400	"	"	"	"	"	"
Selenium	0.325	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	164	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	71.1	0.0500	"	"	"	"	"	"	
Sodium	19.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.315	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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:
05/10/24 12:45

SS-26-N 3FT
2403443-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.2	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.68	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

SS-26-S 3FT
2403443-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0289	72.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0461	115 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	3.96	31.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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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:
05/10/24 12:45

SS-26-S 3FT
2403443-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0272	81.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	57.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-26-S 3FT
2403443-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.93	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B	
Barium	39.7	0.400	"	"	"	"	"	"	
Cadmium	0.214	0.200	"	"	"	"	"	"	
Copper	10.9	0.400	"	"	"	"	"	"	
Lead	11.7	0.200	"	"	"	"	"	"	
Nickel	7.43	0.400	"	"	"	"	"	"	
Silver	0.0747	0.0200	"	"	"	"	"	"	
Zinc	47.2	0.400	"	"	"	"	"	"	
Selenium	0.277	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.2	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	49.5	0.0500	"	"	"	"	"	"	
Sodium	22.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.540	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-26-S 3FT
2403443-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.0	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.888	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-26 4FT
2403443-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0298	74.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0468	117 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0414	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	3.83	30.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-26 4FT
2403443-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0156	46.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-26 4FT
2403443-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.03	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B
Barium	52.8	0.400	"	"	"	"	"	"
Cadmium	0.224	0.200	"	"	"	"	"	"
Copper	12.9	0.400	"	"	"	"	"	"
Lead	12.6	0.200	"	"	"	"	"	"
Nickel	6.93	0.400	"	"	"	"	"	"
Silver	0.0683	0.0200	"	"	"	"	"	"
Zinc	47.8	0.400	"	"	"	"	"	"
Selenium	0.352	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.3	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	45.9	0.0500	"	"	"	"	"	"	
Sodium	7.80	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.165	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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:
05/10/24 12:45

FS-26 4FT
2403443-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.6	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.07	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

SS-27-N 2FT
2403443-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0316	78.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0478	119 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.04	32.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-27-N 2FT
2403443-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0217	65.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-27-N 2FT
2403443-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.25	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B
Barium	49.9	0.400	"	"	"	"	"	"
Cadmium	0.216	0.200	"	"	"	"	"	"
Copper	11.3	0.400	"	"	"	"	"	"
Lead	11.8	0.200	"	"	"	"	"	"
Nickel	7.01	0.400	"	"	"	"	"	"
Silver	0.0737	0.0200	"	"	"	"	"	"
Zinc	46.1	0.400	"	"	"	"	"	"
Selenium	0.299	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.8	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	67.3	0.0500	"	"	"	"	"	"	
Sodium	10.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.208	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

SS-27-N 2FT
2403443-16 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.1	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.07	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

SS-27-S 2FT
2403443-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1065	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0292	73.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0445	111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1066	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.26	34.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-27-S 2FT
2403443-17 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0157	47.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0142	42.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-27-S 2FT
2403443-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.07	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B
Barium	54.7	0.400	"	"	"	"	"	"
Cadmium	0.224	0.200	"	"	"	"	"	"
Copper	13.3	0.400	"	"	"	"	"	"
Lead	12.4	0.200	"	"	"	"	"	"
Nickel	6.80	0.400	"	"	"	"	"	"
Silver	0.0796	0.0200	"	"	"	"	"	"
Zinc	48.4	0.400	"	"	"	"	"	"
Selenium	0.270	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.4	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	40.5	0.0500	"	"	"	"	"	"	
Sodium	15.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.373	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-27-S 2FT
2403443-17 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.3	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.832	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-27 3FT
2403443-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1064	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0348	86.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1067	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.91	79.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

FS-27 3FT
2403443-18 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0220	65.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0179	53.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

FS-27 3FT
2403443-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	8.03	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B
Barium	37.5	0.400	"	"	"	"	"	"
Cadmium	0.218	0.200	"	"	"	"	"	"
Copper	12.6	0.400	"	"	"	"	"	"
Lead	13.2	0.200	"	"	"	"	"	"
Nickel	7.15	0.400	"	"	"	"	"	"
Silver	0.0840	0.0200	"	"	"	"	"	"
Zinc	51.9	0.400	"	"	"	"	"	"
Selenium	0.300	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.4	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	15.1	0.0500	"	"	"	"	"	"	
Sodium	10.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.338	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-27 3FT
2403443-18 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.0	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.547	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.62		pH Units	1	BHD0164	04/05/24	04/08/24	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:
05/10/24 12:45

SS-28-N 2.5FT
2403443-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.13	0.0020	mg/kg	1	BHC1064	03/28/24	03/29/24	EPA 8260B	
Toluene	0.72	0.0050	"	"	"	"	"	"	E
Ethylbenzene	0.27	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.2	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.45	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.12	0.0050	"	"	"	"	"	"	
Naphthalene	0.044	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	38	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0425	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0383	95.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0701	175 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	4600	50	mg/kg	1	BHC1067	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	890	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.0	128 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-28-N 2.5FT
2403443-19 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	0.151	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	0.0583	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	0.530	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	17.0	1.00	"	200	"	"	04/02/24	"	
2-Methylnaphthalene	25.9	1.00	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00	%	40-150		"	"	03/30/24	"	S-01
Surrogate: Fluoranthene-d10	0.0484	145 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-28-N 2.5FT
2403443-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.95	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B
Barium	57.5	0.400	"	"	"	"	"	"
Cadmium	0.231	0.200	"	"	"	"	"	"
Copper	13.5	0.400	"	"	"	"	"	"
Lead	12.9	0.200	"	"	"	"	"	"
Nickel	7.22	0.400	"	"	"	"	"	"
Silver	0.0731	0.0200	"	"	"	"	"	"
Zinc	49.8	0.400	"	"	"	"	"	"
Selenium	0.292	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.2	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	6.99	0.0500	"	"	"	"	"	"	
Sodium	2.84	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.114	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-28-N 2.5FT
2403443-19 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.6	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.298	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHD0164	04/05/24	04/08/24	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 Henehan

Reported:
05/10/24 12:45

SS-28-S 2.5FT
2403443-20 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1064	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0320	79.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0368	92.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1067	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	85.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-28-S 2.5FT
2403443-20 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1072	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0367	110 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	64.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

SS-28-S 2.5FT
2403443-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.58	0.200	mg/kg dry	1	BHD0522	04/16/24	04/24/24	EPA 6020B
Barium	61.2	0.400	"	"	"	"	"	"
Cadmium	0.225	0.200	"	"	"	"	"	"
Copper	13.3	0.400	"	"	"	"	"	"
Lead	12.8	0.200	"	"	"	"	"	"
Nickel	6.82	0.400	"	"	"	"	"	"
Silver	0.0752	0.0200	"	"	"	"	"	"
Zinc	47.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.9	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	14.5	0.0500	"	"	"	"	"	"	
Sodium	14.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.510	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

SS-28-S 2.5FT
2403443-20 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.2	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.456	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BHD0164	04/05/24	04/08/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

FS-28 3FT
2403443-21 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1064	03/28/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0315	78.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0364	91.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1067	03/28/24	03/29/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.1	81.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

FS-28 3FT
2403443-21 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1073	03/29/24	03/30/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0250	75.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0133	04/04/24	05/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

FS-28 3FT
2403443-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.27	0.200	mg/kg dry	1	BHD0551	04/17/24	04/26/24	EPA 6020B
Barium	66.7	0.400	"	"	"	"	"	"
Cadmium	0.208	0.200	"	"	"	"	"	"
Copper	6.92	0.400	"	"	"	"	"	"
Lead	12.0	0.200	"	"	"	"	"	"
Nickel	6.99	0.400	"	"	"	"	"	"
Silver	0.0977	0.0200	"	"	"	"	"	"
Zinc	51.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0018	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	110	0.0500	mg/L dry	1	BHD0162	04/05/24	05/09/24	EPA 6020B	
Magnesium	47.9	0.0500	"	"	"	"	"	"	
Sodium	6.26	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.125	0.00100	units	1	BHE0344	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

FS-28 3FT
2403443-21 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.1	%	1	BHD0071	04/03/24	04/03/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.21	0.0100	mmhos/cm	1	BHD0163	04/05/24	04/08/24	EPA 120.1	

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

Date Sampled: **03/28/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHD0164	04/05/24	04/08/24	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:
05/10/24 12:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC1064 - EPA 5030 Soil MS

Blank (BHC1064-BLK1)

Prepared: 03/28/24 Analyzed: 03/29/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0283		"	0.0400		70.8	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0343		"	0.0400		85.8	50-150			

LCS (BHC1064-BS1)

Prepared: 03/28/24 Analyzed: 03/29/24

Benzene	0.0927	0.0020	mg/kg	0.100		92.7	70-130			
Toluene	0.0854	0.0050	"	0.100		85.4	70-130			
Ethylbenzene	0.0942	0.0050	"	0.100		94.2	70-130			
m,p-Xylene	0.186	0.010	"	0.200		92.9	70-130			
o-Xylene	0.0833	0.0050	"	0.100		83.3	70-130			
1,2,4-Trimethylbenzene	0.0758	0.0050	"	0.100		75.8	70-130			
1,3,5-Trimethylbenzene	0.0784	0.0050	"	0.100		78.4	70-130			
Naphthalene	0.0802	0.0038	"	0.100		80.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0283		"	0.0400		70.6	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0322		"	0.0400		80.5	50-150			

Matrix Spike (BHC1064-MS1)

Source: 2403435-01

Prepared: 03/28/24 Analyzed: 03/29/24

Benzene	0.0928	0.0020	mg/kg	0.100	ND	92.8	70-130			
Toluene	0.0842	0.0050	"	0.100	ND	84.2	70-130			
Ethylbenzene	0.0853	0.0050	"	0.100	ND	85.3	70-130			
m,p-Xylene	0.158	0.010	"	0.200	ND	79.1	70-130			
o-Xylene	0.0748	0.0050	"	0.100	ND	74.8	70-130			
1,2,4-Trimethylbenzene	0.0682	0.0050	"	0.100	ND	68.2	70-130			QM-07
1,3,5-Trimethylbenzene	0.0700	0.0050	"	0.100	ND	70.0	70-130			
Naphthalene	0.0714	0.0038	"	0.100	0.0248	46.6	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0326		"	0.0400		81.6	50-150			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	50-150			

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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC1064 - EPA 5030 Soil MS

Matrix Spike Dup (BHC1064-MSD1)

Source: 2403435-01

Prepared: 03/28/24 Analyzed: 03/29/24

Benzene	0.0930	0.0020	mg/kg	0.100	ND	93.0	70-130	0.226	30	
Toluene	0.0847	0.0050	"	0.100	ND	84.7	70-130	0.533	30	
Ethylbenzene	0.0926	0.0050	"	0.100	ND	92.6	70-130	8.26	30	
m,p-Xylene	0.183	0.010	"	0.200	ND	91.4	70-130	14.4	30	
o-Xylene	0.0817	0.0050	"	0.100	ND	81.7	70-130	8.74	30	
1,2,4-Trimethylbenzene	0.0737	0.0050	"	0.100	ND	73.7	70-130	7.74	30	
1,3,5-Trimethylbenzene	0.0767	0.0050	"	0.100	ND	76.7	70-130	9.12	30	
Naphthalene	0.0694	0.0038	"	0.100	0.0248	44.7	70-130	2.77	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0296		"	0.0400		74.0	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.8	50-150			

Batch BHC1065 - EPA 5030 Soil MS

Blank (BHC1065-BLK1)

Prepared: 03/28/24 Analyzed: 03/29/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0270		"	0.0400		67.4	50-150			
Surrogate: Toluene-d8	0.0459		"	0.0400		115	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHC1065 - EPA 5030 Soil MS

LCS (BHC1065-BS1)

Prepared: 03/28/24 Analyzed: 03/29/24

Benzene	0.0717	0.0020	mg/kg	0.100		71.7	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.0872	0.0050	"	0.100		87.2	70-130			
m,p-Xylene	0.175	0.010	"	0.200		87.4	70-130			
o-Xylene	0.0872	0.0050	"	0.100		87.2	70-130			
1,2,4-Trimethylbenzene	0.0719	0.0050	"	0.100		71.9	70-130			
1,3,5-Trimethylbenzene	0.0757	0.0050	"	0.100		75.7	70-130			
Naphthalene	0.108	0.0038	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0226		"	0.0400		56.4	50-150			
Surrogate: Toluene-d8	0.0482		"	0.0400		121	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

Matrix Spike (BHC1065-MS1)

Source: 2403443-02

Prepared: 03/28/24 Analyzed: 03/29/24

Benzene	0.0646	0.0020	mg/kg	0.100	ND	64.6	70-130			QM-07
Toluene	0.0911	0.0050	"	0.100	ND	91.1	70-130			
Ethylbenzene	0.0796	0.0050	"	0.100	ND	79.6	70-130			
m,p-Xylene	0.160	0.010	"	0.200	ND	80.2	70-130			
o-Xylene	0.0793	0.0050	"	0.100	ND	79.3	70-130			
1,2,4-Trimethylbenzene	0.0649	0.0050	"	0.100	ND	64.9	70-130			QM-07
1,3,5-Trimethylbenzene	0.0680	0.0050	"	0.100	ND	68.0	70-130			QM-07
Naphthalene	0.0398	0.0038	"	0.100	ND	39.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0236		"	0.0400		59.0	50-150			
Surrogate: Toluene-d8	0.0448		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	50-150			

Matrix Spike Dup (BHC1065-MSD1)

Source: 2403443-02

Prepared: 03/28/24 Analyzed: 03/29/24

Benzene	0.0637	0.0020	mg/kg	0.100	ND	63.7	70-130	1.45	30	QM-07
Toluene	0.0901	0.0050	"	0.100	ND	90.1	70-130	1.09	30	
Ethylbenzene	0.0751	0.0050	"	0.100	ND	75.1	70-130	5.82	30	
m,p-Xylene	0.151	0.010	"	0.200	ND	75.5	70-130	5.99	30	
o-Xylene	0.0747	0.0050	"	0.100	ND	74.7	70-130	5.92	30	
1,2,4-Trimethylbenzene	0.0606	0.0050	"	0.100	ND	60.6	70-130	6.79	30	QM-07
1,3,5-Trimethylbenzene	0.0646	0.0050	"	0.100	ND	64.6	70-130	4.98	30	QM-07
Naphthalene	0.0389	0.0038	"	0.100	ND	38.9	70-130	2.44	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0230		"	0.0400		57.4	50-150			
Surrogate: Toluene-d8	0.0478		"	0.0400		119	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.7	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC1066 - EPA 3550A

Blank (BHC1066-BLK1)

Prepared: 03/28/24 Analyzed: 03/29/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.9		"	12.5		135	30-150			

LCS (BHC1066-BS1)

Prepared: 03/28/24 Analyzed: 03/29/24

C10-C28 (DRO)	612	50	mg/kg	500		122	70-130			
Surrogate: o-Terphenyl	15.7		"	12.5		126	30-150			

Matrix Spike (BHC1066-MS1)

Source: 2403443-02

Prepared: 03/28/24 Analyzed: 03/29/24

C10-C28 (DRO)	539	50	mg/kg	500	16.9	104	70-130			
Surrogate: o-Terphenyl	9.71		"	12.5		77.7	30-150			

Matrix Spike Dup (BHC1066-MSD1)

Source: 2403443-02

Prepared: 03/28/24 Analyzed: 03/29/24

C10-C28 (DRO)	524	50	mg/kg	500	16.9	102	70-130	2.73	20	
Surrogate: o-Terphenyl	9.73		"	12.5		77.9	30-150			

Batch BHC1067 - EPA 3550A

Blank (BHC1067-BLK1)

Prepared: 03/28/24 Analyzed: 03/29/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.4		"	12.5		131	30-150			

LCS (BHC1067-BS1)

Prepared: 03/28/24 Analyzed: 03/29/24

C10-C28 (DRO)	641	50	mg/kg	500		128	70-130			
Surrogate: o-Terphenyl	14.6		"	12.5		117	30-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC1067 - EPA 3550A

Matrix Spike (BHC1067-MS1)

Source: 2403435-01

Prepared: 03/28/24 Analyzed: 03/29/24

C10-C28 (DRO)	676	50	mg/kg	500	64.1	122	70-130			
Surrogate: o-Terphenyl	13.4		"	12.5		107	30-150			

Matrix Spike Dup (BHC1067-MSD1)

Source: 2403435-01

Prepared: 03/28/24 Analyzed: 03/29/24

C10-C28 (DRO)	608	50	mg/kg	500	64.1	109	70-130	10.5	20	
Surrogate: o-Terphenyl	13.4		"	12.5		107	30-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC1072 - EPA 5030 Soil MS

Blank (BHC1072-BLK1)

Prepared & Analyzed: 03/29/24

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0376	"	0.0333	113	40-150
Surrogate: Fluoranthene-d10	0.0301	"	0.0333	90.3	40-150

LCS (BHC1072-BS1)

Prepared & Analyzed: 03/29/24

Acenaphthene	0.0338	0.00500	mg/kg	0.0333	101	31-137
Anthracene	0.0350	0.00500	"	0.0333	105	30-120
Benzo (a) anthracene	0.0312	0.00500	"	0.0333	93.7	30-120
Benzo (a) pyrene	0.0292	0.00500	"	0.0333	87.7	30-120
Benzo (b) fluoranthene	0.0310	0.00500	"	0.0333	92.9	30-120
Benzo (k) fluoranthene	0.0369	0.00500	"	0.0333	111	30-120
Chrysene	0.0367	0.00500	"	0.0333	110	30-120
Dibenz (a,h) anthracene	0.0297	0.00500	"	0.0333	89.2	30-120
Fluoranthene	0.0346	0.00500	"	0.0333	104	30-120
Fluorene	0.0334	0.00500	"	0.0333	100	30-120
Indeno (1,2,3-cd) pyrene	0.0263	0.00500	"	0.0333	79.0	30-120
Pyrene	0.0410	0.00500	"	0.0333	123	35-142
1-Methylnaphthalene	0.0161	0.00500	"	0.0333	48.2	35-142
2-Methylnaphthalene	0.0166	0.00500	"	0.0333	49.7	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0407	"	0.0333	122	40-150
Surrogate: Fluoranthene-d10	0.0340	"	0.0333	102	40-150

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC1072 - EPA 5030 Soil MS

Matrix Spike (BHC1072-MS1)			Source: 2403443-01		Prepared & Analyzed: 03/29/24						
Acenaphthene	0.0514	0.00500	mg/kg	0.0333	ND	154	31-137				QM-06
Anthracene	0.223	0.00500	"	0.0333	ND	669	30-120				QM-06
Benzo (a) anthracene	0.0256	0.00500	"	0.0333	ND	76.8	30-120				
Benzo (a) pyrene	0.0190	0.00500	"	0.0333	ND	57.0	30-120				
Benzo (b) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.1	30-120				
Benzo (k) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120				
Chrysene	0.0450	0.00500	"	0.0333	ND	135	30-120				QM-06
Dibenz (a,h) anthracene	0.0331	0.00500	"	0.0333	ND	99.2	30-120				
Fluoranthene	0.0241	0.00500	"	0.0333	ND	72.3	30-120				
Fluorene	0.128	0.00500	"	0.0333	0.0114	349	30-120				QM-06
Indeno (1,2,3-cd) pyrene	0.0290	0.00500	"	0.0333	ND	87.1	30-120				
Pyrene	0.0310	0.00500	"	0.0333	ND	93.1	35-142				
1-Methylnaphthalene	7.14	0.00500	"	0.0333	0.288	NR	15-130				QM-06
2-Methylnaphthalene	7.77	0.00500	"	0.0333	0.269	NR	15-130				QM-06
Surrogate: 2-Methylnaphthalene-d10	0.142		"	0.0333		426	40-150				QM-06
Surrogate: Fluoranthene-d10	0.0211		"	0.0333		63.4	40-150				

Matrix Spike Dup (BHC1072-MSD1)			Source: 2403443-01		Prepared & Analyzed: 03/29/24						
Acenaphthene	0.0314	0.00500	mg/kg	0.0333	ND	94.2	31-137	48.2	30		QM-06
Anthracene	0.0195	0.00500	"	0.0333	ND	58.6	30-120	168	30		QM-06
Benzo (a) anthracene	0.0244	0.00500	"	0.0333	ND	73.2	30-120	4.82	30		
Benzo (a) pyrene	0.0206	0.00500	"	0.0333	ND	61.7	30-120	7.87	30		
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	8.09	30		
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.9	30-120	5.52	30		
Chrysene	0.0368	0.00500	"	0.0333	ND	110	30-120	20.1	30		
Dibenz (a,h) anthracene	0.0337	0.00500	"	0.0333	ND	101	30-120	1.97	30		
Fluoranthene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	18.7	30		
Fluorene	0.0681	0.00500	"	0.0333	0.0114	170	30-120	60.7	30		QM-06
Indeno (1,2,3-cd) pyrene	0.0297	0.00500	"	0.0333	ND	89.1	30-120	2.24	30		
Pyrene	0.0265	0.00500	"	0.0333	ND	79.5	35-142	15.7	30		
1-Methylnaphthalene	1.76	0.00500	"	0.0333	0.288	NR	15-130	121	50		QM-06
2-Methylnaphthalene	1.64	0.00500	"	0.0333	0.269	NR	15-130	130	50		QM-06
Surrogate: 2-Methylnaphthalene-d10	0.0435		"	0.0333		130	40-150				
Surrogate: Fluoranthene-d10	0.0189		"	0.0333		56.6	40-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC1073 - EPA 5030 Soil MS

Blank (BHC1073-BLK1)

Prepared: 03/29/24 Analyzed: 03/30/24

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0341	"	0.0333	102	40-150
Surrogate: Fluoranthene-d10	0.0309	"	0.0333	92.8	40-150

LCS (BHC1073-BS1)

Prepared: 03/29/24 Analyzed: 03/30/24

Acenaphthene	0.0323	0.00500	mg/kg	0.0333	97.0	31-137
Anthracene	0.0346	0.00500	"	0.0333	104	30-120
Benzo (a) anthracene	0.0326	0.00500	"	0.0333	97.7	30-120
Benzo (a) pyrene	0.0289	0.00500	"	0.0333	86.7	30-120
Benzo (b) fluoranthene	0.0285	0.00500	"	0.0333	85.6	30-120
Benzo (k) fluoranthene	0.0319	0.00500	"	0.0333	95.8	30-120
Chrysene	0.0345	0.00500	"	0.0333	104	30-120
Dibenz (a,h) anthracene	0.0290	0.00500	"	0.0333	86.9	30-120
Fluoranthene	0.0331	0.00500	"	0.0333	99.2	30-120
Fluorene	0.0323	0.00500	"	0.0333	97.0	30-120
Indeno (1,2,3-cd) pyrene	0.0259	0.00500	"	0.0333	77.7	30-120
Pyrene	0.0413	0.00500	"	0.0333	124	35-142
1-Methylnaphthalene	0.0361	0.00500	"	0.0333	108	35-142
2-Methylnaphthalene	0.0426	0.00500	"	0.0333	128	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0396	"	0.0333	119	40-150
Surrogate: Fluoranthene-d10	0.0332	"	0.0333	99.6	40-150

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC1073 - EPA 5030 Soil MS

Matrix Spike (BHC1073-MS1)

Source: 2403443-21

Prepared: 03/29/24 Analyzed: 03/30/24

Acenaphthene	0.0146	0.00500	mg/kg	0.0333	ND	43.8	31-137			
Anthracene	0.0142	0.00500	"	0.0333	ND	42.6	30-120			
Benzo (a) anthracene	0.0152	0.00500	"	0.0333	ND	45.5	30-120			
Benzo (a) pyrene	0.0158	0.00500	"	0.0333	ND	47.3	30-120			
Benzo (b) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.3	30-120			
Benzo (k) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.2	30-120			
Chrysene	0.0147	0.00500	"	0.0333	ND	44.2	30-120			
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333	ND	59.4	30-120			
Fluoranthene	0.0135	0.00500	"	0.0333	ND	40.4	30-120			
Fluorene	0.0139	0.00500	"	0.0333	ND	41.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0146	0.00500	"	0.0333	ND	43.7	30-120			
Pyrene	0.0143	0.00500	"	0.0333	ND	43.0	35-142			
1-Methylnaphthalene	0.0204	0.00500	"	0.0333	ND	61.0	15-130			
2-Methylnaphthalene	0.0410	0.00500	"	0.0333	ND	123	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		48.0	40-150			
Surrogate: Fluoranthene-d10	0.0136		"	0.0333		40.7	40-150			

Matrix Spike Dup (BHC1073-MSD1)

Source: 2403443-21

Prepared: 03/29/24 Analyzed: 03/30/24

Acenaphthene	0.0185	0.00500	mg/kg	0.0333	ND	55.4	31-137	23.4	30	
Anthracene	0.0211	0.00500	"	0.0333	ND	63.3	30-120	39.1	30	QR-02
Benzo (a) anthracene	0.0235	0.00500	"	0.0333	ND	70.6	30-120	43.1	30	QR-02
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	16.5	30	
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.9	30-120	22.3	30	
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.2	30-120	15.6	30	
Chrysene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	43.6	30	QR-02
Dibenz (a,h) anthracene	0.0248	0.00500	"	0.0333	ND	74.3	30-120	22.2	30	
Fluoranthene	0.0246	0.00500	"	0.0333	ND	73.9	30-120	58.7	30	QR-02
Fluorene	0.0186	0.00500	"	0.0333	ND	55.7	30-120	28.7	30	
Indeno (1,2,3-cd) pyrene	0.0221	0.00500	"	0.0333	ND	66.4	30-120	41.3	30	QR-02
Pyrene	0.0288	0.00500	"	0.0333	ND	86.4	35-142	67.1	30	QR-02
1-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.4	15-130	5.37	50	
2-Methylnaphthalene	0.0232	0.00500	"	0.0333	ND	69.5	15-130	55.5	50	QR-02
Surrogate: 2-Methylnaphthalene-d10	0.0241		"	0.0333		72.2	40-150			
Surrogate: Fluoranthene-d10	0.0196		"	0.0333		58.9	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

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 BHD0133 - EPA 3050B

Blank (BHD0133-BLK1)

Prepared: 04/04/24 Analyzed: 05/08/24

Boron ND 2.00 mg/L

LCS (BHD0133-BS1)

Prepared: 04/04/24 Analyzed: 05/08/24

Boron 4.66 2.00 mg/L 5.00 93.1 80-120

Duplicate (BHD0133-DUP1)

Source: 2403443-01

Prepared: 04/04/24 Analyzed: 05/08/24

Boron 0.467 2.00 mg/L 0.417 11.2 20

Matrix Spike (BHD0133-MS1)

Source: 2403443-01

Prepared: 04/04/24 Analyzed: 05/08/24

Boron 4.78 2.00 mg/L 5.00 0.417 87.3 75-125

Matrix Spike Dup (BHD0133-MSD1)

Source: 2403443-01

Prepared: 04/04/24 Analyzed: 05/08/24

Boron 5.36 2.00 mg/L 5.00 0.417 98.9 75-125 11.4 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

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 BHD0522 - EPA 3050B

Blank (BHD0522-BLK1)

Prepared: 04/16/24 Analyzed: 04/23/24

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 (BHD0522-BS1)

Prepared: 04/16/24 Analyzed: 04/23/24

Arsenic	38.5	0.200	mg/kg wet	40.0	96.3	80-120
Barium	39.4	0.400	"	40.0	98.6	80-120
Cadmium	1.99	0.200	"	2.00	99.5	80-120
Copper	39.4	0.400	"	40.0	98.5	80-120
Lead	19.9	0.200	"	20.0	99.5	80-120
Nickel	40.0	0.400	"	40.0	100	80-120
Silver	2.00	0.0200	"	2.00	99.9	80-120
Zinc	38.5	0.400	"	40.0	96.3	80-120
Selenium	3.76	0.260	"	4.00	93.9	80-120

Duplicate (BHD0522-DUP1)

Source: 2403443-01

Prepared: 04/16/24 Analyzed: 04/23/24

Arsenic	2.46	0.200	mg/kg dry	1.81	30.3	20	QR-04
Barium	38.3	0.400	"	31.8	18.5	20	
Cadmium	0.139	0.200	"	0.0855	48.0	20	QR-01
Copper	6.61	0.400	"	5.66	15.5	20	
Lead	4.59	0.200	"	3.53	26.3	20	QR-04
Nickel	3.90	0.400	"	3.37	14.4	20	
Silver	0.0189	0.0200	"	0.0141	29.2	20	QR-01
Zinc	15.5	0.400	"	13.5	13.7	20	
Selenium	ND	0.260	"	ND		20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

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 BHD0522 - EPA 3050B

Matrix Spike (BHD0522-MS1)		Source: 2403443-01			Prepared: 04/16/24 Analyzed: 04/23/24					
Arsenic	42.3	0.200	mg/kg dry	41.0	1.81	98.6	75-125			
Barium	74.9	0.400	"	41.0	31.8	105	75-125			
Cadmium	2.22	0.200	"	2.05	0.0855	104	75-125			
Copper	47.0	0.400	"	41.0	5.66	101	75-125			
Lead	24.4	0.200	"	20.5	3.53	102	75-125			
Nickel	33.1	0.400	"	41.0	3.37	72.4	75-125			QM-07
Silver	2.09	0.0200	"	2.05	0.0141	101	75-125			
Zinc	52.1	0.400	"	41.0	13.5	94.1	75-125			
Selenium	3.76	0.260	"	4.10	ND	91.6	75-125			

Matrix Spike Dup (BHD0522-MSD1)		Source: 2403443-01			Prepared: 04/16/24 Analyzed: 04/23/24					
Arsenic	42.4	0.200	mg/kg dry	41.0	1.81	98.9	75-125	0.280	25	
Barium	76.0	0.400	"	41.0	31.8	108	75-125	1.52	25	
Cadmium	2.28	0.200	"	2.05	0.0855	107	75-125	2.76	25	
Copper	47.8	0.400	"	41.0	5.66	103	75-125	1.58	25	
Lead	25.2	0.200	"	20.5	3.53	106	75-125	3.37	25	
Nickel	34.2	0.400	"	41.0	3.37	75.0	75-125	3.16	25	
Silver	2.12	0.0200	"	2.05	0.0141	103	75-125	1.66	25	
Zinc	53.1	0.400	"	41.0	13.5	96.5	75-125	1.94	25	
Selenium	3.74	0.260	"	4.10	ND	91.1	75-125	0.515	25	

Batch BHD0551 - EPA 3050B

Blank (BHD0551-BLK1)		Prepared: 04/17/24 Analyzed: 04/26/24								
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	"							

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/10/24 12:45

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 BHD0551 - EPA 3050B

LCS (BHD0551-BS1)

Prepared: 04/17/24 Analyzed: 04/26/24

Arsenic	35.4	0.200	mg/kg wet	40.0		88.5	80-120			
Barium	38.4	0.400	"	40.0		95.9	80-120			
Cadmium	1.87	0.200	"	2.00		93.4	80-120			
Copper	41.8	0.400	"	40.0		104	80-120			
Lead	19.0	0.200	"	20.0		95.0	80-120			
Nickel	41.0	0.400	"	40.0		102	80-120			
Silver	1.88	0.0200	"	2.00		94.1	80-120			
Zinc	35.6	0.400	"	40.0		89.0	80-120			
Selenium	3.72	0.260	"	4.00		93.0	80-120			

Duplicate (BHD0551-DUP1)

Source: 2403437-01

Prepared: 04/17/24 Analyzed: 04/26/24

Arsenic	1.01	0.181	mg/kg dry		1.00			0.239	20	
Barium	40.6	0.362	"		48.1			16.9	20	
Cadmium	0.0867	0.181	"		0.0769			12.1	20	
Copper	2.29	0.362	"		2.04			11.2	20	
Lead	3.57	0.181	"		4.12			14.3	20	
Nickel	2.25	0.362	"		2.03			10.3	20	
Silver	0.0335	0.0181	"		0.0356			6.13	20	
Zinc	11.6	0.362	"		10.8			7.55	20	
Selenium	ND	0.236	"		ND				20	

Matrix Spike (BHD0551-MS1)

Source: 2403437-01

Prepared: 04/17/24 Analyzed: 04/26/24

Arsenic	35.7	0.200	mg/kg dry	37.5	1.00	92.6	75-125			
Barium	76.6	0.400	"	37.5	48.1	76.0	75-125			
Cadmium	1.91	0.200	"	1.87	0.0769	97.9	75-125			
Copper	32.7	0.400	"	37.5	2.04	81.9	75-125			
Lead	21.5	0.200	"	18.7	4.12	93.0	75-125			
Nickel	32.5	0.400	"	37.5	2.03	81.2	75-125			
Silver	1.81	0.0200	"	1.87	0.0356	94.6	75-125			
Zinc	47.5	0.400	"	37.5	10.8	97.8	75-125			
Selenium	3.26	0.260	"	3.75	ND	86.9	75-125			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

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 BHD0551 - EPA 3050B

Matrix Spike Dup (BHD0551-MSD1)		Source: 2403437-01			Prepared: 04/17/24 Analyzed: 04/26/24					
Arsenic	35.3	0.200	mg/kg dry	37.5	1.00	91.5	75-125	1.16	25	
Barium	76.9	0.400	"	37.5	48.1	76.9	75-125	0.442	25	
Cadmium	1.93	0.200	"	1.87	0.0769	99.0	75-125	1.07	25	
Copper	32.6	0.400	"	37.5	2.04	81.4	75-125	0.575	25	
Lead	21.6	0.200	"	18.7	4.12	93.1	75-125	0.141	25	
Nickel	32.4	0.400	"	37.5	2.03	81.1	75-125	0.137	25	
Silver	1.82	0.0200	"	1.87	0.0356	95.4	75-125	0.888	25	
Zinc	47.0	0.400	"	37.5	10.8	96.5	75-125	1.03	25	
Selenium	3.28	0.260	"	3.75	ND	87.4	75-125	0.643	25	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/10/24 12:45

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 BHD0018 - 3060A Mod

Blank (BHD0018-BLK1)

Prepared: 04/01/24 Analyzed: 04/03/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0018-BS1)

Prepared: 04/01/24 Analyzed: 04/03/24

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHD0018-DUP1)

Source: 2403443-01

Prepared: 04/01/24 Analyzed: 04/03/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0018-MS1)

Source: 2403443-01

Prepared: 04/01/24 Analyzed: 04/03/24

Chromium, Hexavalent 22.7 0.30 mg/kg dry 26.5 ND 85.6 75-125

Matrix Spike Dup (BHD0018-MSD1)

Source: 2403443-01

Prepared: 04/01/24 Analyzed: 04/03/24

Chromium, Hexavalent 23.4 0.30 mg/kg dry 26.5 ND 88.4 75-125 3.22 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

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

Summit Scientific

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

Batch BHD0162 - General Preparation

Blank (BHD0162-BLK1)

Prepared: 04/05/24 Analyzed: 05/09/24

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

LCS (BHD0162-BS1)

Prepared: 04/05/24 Analyzed: 05/09/24

Calcium	5.18	0.0500	mg/L wet	5.00	104	70-130
Magnesium	5.13	0.0500	"	5.00	103	70-130
Sodium	5.18	0.0500	"	5.00	104	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 - Rairdance Pad	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	05/10/24 12:45

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

Summit Scientific

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

Batch BHD0071 - General Preparation

Duplicate (BHD0071-DUP1)	Source: 2403443-01		Prepared & Analyzed: 04/03/24							
% Solids	95.6		%		94.5			1.22	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

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 BHD0163 - General Preparation

Blank (BHD0163-BLK1)

Prepared: 04/05/24 Analyzed: 04/08/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0163-BS1)

Prepared: 04/05/24 Analyzed: 04/08/24

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BHD0163-DUP1)

Source: 2403443-01

Prepared: 04/05/24 Analyzed: 04/08/24

Specific Conductance (EC) 0.936 0.0100 mmhos/cm 0.951 1.61 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 - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

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 BHD0164 - General Preparation

LCS (BHD0164-BS1)

Prepared: 04/05/24 Analyzed: 04/08/24

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BHD0164-DUP1)

Source: 2403443-01

Prepared: 04/05/24 Analyzed: 04/08/24

pH	8.39	pH Units	8.52	1.54	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/10/24 12:45

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-06	Due to noted non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 28, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Raindance Pad
Work Order #2403471

Enclosed are the results of analyses for samples received by Summit Scientific on 03/29/24 17:30. 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 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 - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-40 3FT	2403471-01	Soil	03/29/24 00:00	03/29/24 17:30
SS-41 2FT	2403471-02	Soil	03/29/24 00:00	03/29/24 17:30
SS-42 2FT	2403471-03	Soil	03/29/24 00:00	03/29/24 17:30
SS-43 2FT	2403471-04	Soil	03/29/24 00:00	03/29/24 17:30
SS-44 2FT	2403471-05	Soil	03/29/24 00:00	03/29/24 17:30
SS-45 2FT	2403471-06	Soil	03/29/24 00:00	03/29/24 17:30
FS-40 3FT	2403471-07	Soil	03/29/24 00:00	03/29/24 17:30
FS-41 3FT	2403471-08	Soil	03/29/24 00:00	03/29/24 17:30
FS-42 2FT	2403471-09	Soil	03/29/24 00:00	03/29/24 17:30
FS-43 3FT	2403471-10	Soil	03/29/24 00:00	03/29/24 17:30
FS-44 2FT	2403471-11	Soil	03/29/24 00:00	03/29/24 17:30
FS-45 2FT	2403471-12	Soil	03/29/24 00:00	03/29/24 17:30
SS-29-N 2FT	2403471-13	Soil	03/29/24 00:00	03/29/24 17:30
SS-29-S 2FT	2403471-14	Soil	03/29/24 00:00	03/29/24 17:30
FS-29 3FT	2403471-15	Soil	03/29/24 00:00	03/29/24 17:30
SS-30-N 2FT	2403471-16	Soil	03/29/24 00:00	03/29/24 17:30
SS-30-S 2FT	2403471-17	Soil	03/29/24 00:00	03/29/24 17:30
FS-30 3FT	2403471-18	Soil	03/29/24 00:00	03/29/24 17:30
FS-46 2FT	2403471-19	Soil	03/29/24 00:00	03/29/24 17:30
FS-47 2FT	2403471-20	Soil	03/29/24 00:00	03/29/24 17:30

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.

Summit Scientific



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

2403471.1

Page 1 of 2

Client: Fremont Environmental Inc.

Project Manager: Paul Henchan

Address:

E-Mail: PDC

City/State/Zip:

Phone:

Project Name: RAINDANCE PAD

Sampler Name: HENELIAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	9/15-1 metals	Arsenic	BTEXN + TMBs	TDS, Cl, Su	
1	SS-40 3 FT	3/29/24		2			✓			✓				✓	✓	✓	✓	✓				
2	SS-41 2 FT																					
3	SS-42 2 FT																					
4	SS-43 2 FT																					
5	SS-44 2 FT																					
6	SS-45 2 FT																					
7	FS-40 3 FT																					
8	FS-41 3 FT																					
9	FS-42 2 FT	✓		✓				✓		✓				✓	✓	✓	✓	✓				
10	FS-43 3 FT																					

Relinquished by: <u>PAUL K</u>	Date/Time: <u>3/29/24 1730</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/29/24 1730</u>	Turn-Around Time (Check) Same Day <u>✓</u> 24 hours <u>—</u> 48 hours <u>—</u> Sample Integrity: Temperature Upon Receipt: <u>10.1</u> Samples Intact: <u>Yes</u> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Summit Scientific

S₂

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

2403471.2

Page 2 of 2

Client: Fremont Environmental Inc.

Project Manager: Paul Henchan

Address:

E-Mail: PDC

City/State/Zip:

Phone:

Project Name: RAINDANCE

Sampler Name: HENNEHAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBs	DRO, RRO	PAHs	pH, EC, SAR	Boron	9/15-l metals	Arsenic	BTEXN + TMBs	TDS, Cl, Su	
1	FS-44 2 FT	3/29/24		2			✓			✓			✓	✓	✓	✓	✓					
2	FS-45 2 FT																					
3	SS-29-N 2 FT																					
4	SS-29-S 2 FT																					
5	FS-29 3 FT																					
6	SS-30-N 2 FT																					
7	SS-30-S 2 FT																					
8	FS-30 3 FT																					
9	FS-46 2 FT	✓		✓			✓			✓			✓	✓	✓	✓						
10	FS-47 2 FT	✓		✓			✓			✓			✓	✓	✓	✓						

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
PAH/FE	3/29/24 1730	[Signature]	3/29/24 1730	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: 10.1	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

S₂

2/2

Sample Receipt Checklist

S2 Work Order#

2403471

Client: Fremont

Client Project ID:

Raindance Pad

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

Airbill #:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Sol/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"/>	on 7/16
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
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 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 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

AS

3/29/24



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-40 3FT
2403471-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0321	80.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0446	111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.74	62.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-40 3FT
2403471-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 07:34

SS-40 3FT
2403471-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.14	0.200	mg/kg dry	1	BHD0459	04/15/24	04/22/24	EPA 6020B
Barium	61.1	0.400	"	"	"	"	"	"
Cadmium	0.243	0.200	"	"	"	"	"	"
Copper	13.8	0.400	"	"	"	"	"	"
Lead	12.4	0.200	"	"	"	"	"	"
Nickel	14.7	0.400	"	"	"	"	"	"
Silver	0.0760	0.0200	"	"	"	"	"	"
Zinc	59.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	449	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	186	0.0500	"	"	"	"	"	"	
Sodium	74.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.746	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-40 3FT
2403471-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.2	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.60	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BHD0250	04/08/24	04/09/24	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 - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-41 2FT
2403471-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.014	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.064	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.036	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.0	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0335	83.8 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0412	103 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	440	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	160	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	8.89	71.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-41 2FT
2403471-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0217	65.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

SS-41 2FT
2403471-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.03	0.200	mg/kg dry	1	BHD0459	04/15/24	04/22/24	EPA 6020B
Barium	24.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	9.79	0.400	"	"	"	"	"	"
Lead	10.6	0.200	"	"	"	"	"	"
Nickel	13.0	0.400	"	"	"	"	"	"
Silver	0.0785	0.0200	"	"	"	"	"	"
Zinc	55.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	199	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	151	0.0500	"	"	"	"	"	"	
Sodium	59.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.769	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henahan

Reported:
05/28/24 07:34

SS-41 2FT
2403471-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BHD0126	04/04/24	04/04/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.76	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-42 2FT
2403471-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.65	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	1.5	0.050	"	10	"	"	03/29/24	"	
Ethylbenzene	0.82	0.050	"	"	"	"	"	"	
Xylenes (total)	3.9	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.7	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.45	0.0050	"	1	"	"	03/30/24	"	
Naphthalene	0.093	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	98	0.50	"	"	"	"	"	"	E

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0534	134 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0450	113 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0730	183 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	340	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	90	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	8.41	67.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henahan

Reported:
05/28/24 07:34

SS-42 2FT
2403471-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00520	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	0.0127	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.142	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.155	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	60.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

SS-42 2FT
2403471-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.61	0.200	mg/kg dry	1	BHD0459	04/15/24	04/22/24	EPA 6020B
Barium	18.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	8.40	0.400	"	"	"	"	"	"
Lead	9.94	0.200	"	"	"	"	"	"
Nickel	11.6	0.400	"	"	"	"	"	"
Silver	0.0748	0.0200	"	"	"	"	"	"
Zinc	50.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	222	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	108	0.0500	"	"	"	"	"	"	
Sodium	34.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.474	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-42 2FT
2403471-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BHD0126	04/04/24	04/04/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.48	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

SS-43 2FT
2403471-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/29/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0331	82.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0427	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0371	92.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.32	58.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-43 2FT
2403471-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0159	47.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0151	45.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

SS-43 2FT
2403471-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.25	0.200	mg/kg dry	1	BHD0459	04/15/24	04/22/24	EPA 6020B
Barium	74.0	0.400	"	"	"	"	"	"
Cadmium	0.267	0.200	"	"	"	"	"	"
Copper	14.7	0.400	"	"	"	"	"	"
Lead	12.9	0.200	"	"	"	"	"	"
Nickel	16.4	0.400	"	"	"	"	"	"
Silver	0.0760	0.0200	"	"	"	"	"	"
Zinc	63.4	0.400	"	"	"	"	"	"
Selenium	0.266	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	362	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	267	0.0500	"	"	"	"	"	"	
Sodium	109	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.06	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-43 2FT
2403471-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.9	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.82	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

SS-44 2FT
2403471-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0314	78.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0427	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0360	89.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.80	62.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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PO Box 1289
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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-44 2FT
2403471-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0254	76.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0261	78.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-44 2FT
2403471-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.15	0.200	mg/kg dry	1	BHD0459	04/15/24	04/22/24	EPA 6020B
Barium	67.3	0.400	"	"	"	"	"	"
Cadmium	0.239	0.200	"	"	"	"	"	"
Copper	12.9	0.400	"	"	"	"	"	"
Lead	10.9	0.200	"	"	"	"	"	"
Nickel	19.1	0.400	"	"	"	"	"	"
Silver	0.0644	0.0200	"	"	"	"	"	"
Zinc	53.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	178	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	103	0.0500	"	"	"	"	"	"	
Sodium	26.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.390	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-44 2FT
2403471-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.6	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.31	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

SS-45 2FT
2403471-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0308	77.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0373	93.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.23	65.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-45 2FT
2403471-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0279	83.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0295	88.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-45 2FT
2403471-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.61	0.180	mg/kg dry	1	BHD0459	04/15/24	04/22/24	EPA 6020B
Barium	95.4	0.360	"	"	"	"	"	"
Cadmium	0.229	0.180	"	"	"	"	"	"
Copper	14.0	0.360	"	"	"	"	"	"
Lead	12.0	0.180	"	"	"	"	"	"
Nickel	15.2	0.360	"	"	"	"	"	"
Silver	0.0677	0.0180	"	"	"	"	"	"
Zinc	58.6	0.360	"	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	113	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	39.7	0.0500	"	"	"	"	"	"	
Sodium	37.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.779	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

SS-45 2FT
2403471-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.4	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.873	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BHD0250	04/08/24	04/09/24	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:
05/28/24 07:34

FS-40 3FT
2403471-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0322	80.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0450	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.50	60.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 07:34

FS-40 3FT
2403471-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0197	59.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	67.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 07:34

FS-40 3FT
2403471-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.23	0.200	mg/kg dry	1	BHD0459	04/15/24	04/22/24	EPA 6020B
Barium	46.9	0.400	"	"	"	"	"	"
Cadmium	0.227	0.200	"	"	"	"	"	"
Copper	13.9	0.400	"	"	"	"	"	"
Lead	12.5	0.200	"	"	"	"	"	"
Nickel	14.5	0.400	"	"	"	"	"	"
Silver	0.0732	0.0200	"	"	"	"	"	"
Zinc	61.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	571	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	443	0.0500	"	"	"	"	"	"	
Sodium	211	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.61	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-40 3FT
2403471-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.9	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.28	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-41 3FT
2403471-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	0.15	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.071	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.33	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.14	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.9	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0321	80.3 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0406	102 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398	99.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	8.44	67.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-41 3FT
2403471-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00688	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: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0228	68.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0260	78.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-41 3FT
2403471-08 (Soil)

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Total Metals by EPA 6020B

Arsenic	6.83	0.180	mg/kg dry	1	BHD0459	04/15/24	04/22/24	EPA 6020B
Barium	35.1	0.360	"	"	"	"	"	"
Cadmium	ND	0.180	"	"	"	"	"	"
Copper	9.45	0.360	"	"	"	"	"	"
Lead	10.4	0.180	"	"	"	"	"	"
Nickel	12.6	0.360	"	"	"	"	"	"
Silver	0.0693	0.0180	"	"	"	"	"	"
Zinc	51.1	0.360	"	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	235	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	186	0.0500	"	"	"	"	"	"	
Sodium	67.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.803	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-41 3FT
2403471-08 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	81.5			%	1	BHD0126	04/04/24	04/04/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.00	0.0100		mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.05			pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-42 2FT
2403471-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0318	79.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0431	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0371	92.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.03	64.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-42 2FT
2403471-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-42 2FT
2403471-09 (Soil)

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Total Metals by EPA 6020B

Arsenic	7.68	0.200	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	39.3	0.400	"	"	"	"	"	"
Cadmium	0.224	0.200	"	"	"	"	"	"
Copper	15.2	0.400	"	"	"	"	"	"
Lead	13.6	0.200	"	"	"	"	"	"
Nickel	15.0	0.400	"	"	"	"	"	"
Silver	0.0835	0.0200	"	"	"	"	"	"
Zinc	65.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	497	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	179	0.0500	"	"	"	"	"	"	
Sodium	158	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.55	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-42 2FT
2403471-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.2	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.68	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-43 3FT
2403471-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0326	81.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0428	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.45	67.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-43 3FT
2403471-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-43 3FT
2403471-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.63	0.180	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	76.2	0.360	"	"	"	"	"	"
Cadmium	0.183	0.180	"	"	"	"	"	"
Copper	11.5	0.360	"	"	"	"	"	"
Lead	10.3	0.180	"	"	"	"	"	"
Nickel	13.3	0.360	"	"	"	"	"	"
Silver	0.0464	0.0180	"	"	"	"	"	"
Zinc	51.5	0.360	"	"	"	"	"	"
Selenium	0.326	0.234	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.6	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	41.6	0.0500	"	"	"	"	"	"	
Sodium	80.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.92	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-43 3FT
2403471-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.7	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.881	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-44 2FT
2403471-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.032	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.010	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.90	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0325	81.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0425	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.71	61.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-44 2FT
2403471-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0393	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0440	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0202	60.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0243	73.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-44 2FT
2403471-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.66	0.200	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	71.1	0.400	"	"	"	"	"	"
Cadmium	0.236	0.200	"	"	"	"	"	"
Copper	14.1	0.400	"	"	"	"	"	"
Lead	12.1	0.200	"	"	"	"	"	"
Nickel	14.9	0.400	"	"	"	"	"	"
Silver	0.0725	0.0200	"	"	"	"	"	"
Zinc	58.4	0.400	"	"	"	"	"	"
Selenium	0.321	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	290	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	174	0.0500	"	"	"	"	"	"	
Sodium	215	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.46	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-44 2FT
2403471-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.7	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.71	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-45 2FT
2403471-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0311	77.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0444	111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0378	94.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.52	60.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-45 2FT
2403471-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0232	69.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0268	80.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-45 2FT
2403471-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.44	0.200	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	38.2	0.400	"	"	"	"	"	"
Cadmium	0.213	0.200	"	"	"	"	"	"
Copper	12.9	0.400	"	"	"	"	"	"
Lead	12.4	0.200	"	"	"	"	"	"
Nickel	13.9	0.400	"	"	"	"	"	"
Silver	0.0741	0.0200	"	"	"	"	"	"
Zinc	58.6	0.400	"	"	"	"	"	"
Selenium	0.283	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	528	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	220	0.0500	"	"	"	"	"	"	
Sodium	179	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.65	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-45 2FT
2403471-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.6	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.59	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

SS-29-N 2FT
2403471-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0320	80.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0424	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0367	91.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.40	67.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-29-N 2FT
2403471-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0283	85.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0316	94.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 07:34

SS-29-N 2FT
2403471-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.98	0.200	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	57.4	0.400	"	"	"	"	"	"
Cadmium	0.205	0.200	"	"	"	"	"	"
Copper	14.1	0.400	"	"	"	"	"	"
Lead	12.3	0.200	"	"	"	"	"	"
Nickel	14.6	0.400	"	"	"	"	"	"
Silver	0.0713	0.0200	"	"	"	"	"	"
Zinc	58.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	189	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	82.3	0.0500	"	"	"	"	"	"	
Sodium	60.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.925	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-29-N 2FT
2403471-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.2	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.39	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-29-S 2FT
2403471-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0320	79.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0432	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0377	94.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.57	60.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-29-S 2FT
2403471-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0200	60.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Raindance Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-29-S 2FT
2403471-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.60	0.200	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	62.0	0.400	"	"	"	"	"	"
Cadmium	0.204	0.200	"	"	"	"	"	"
Copper	13.7	0.400	"	"	"	"	"	"
Lead	11.8	0.200	"	"	"	"	"	"
Nickel	14.0	0.400	"	"	"	"	"	"
Silver	0.0715	0.0200	"	"	"	"	"	"
Zinc	55.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.1	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	17.8	0.0500	"	"	"	"	"	"	
Sodium	11.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.330	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-29-S 2FT
2403471-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.3	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.384	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-29 3FT
2403471-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0303	75.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0431	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0375	93.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.21	65.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-29 3FT
2403471-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0237	71.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 07:34

FS-29 3FT
2403471-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.89	0.200	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	72.1	0.400	"	"	"	"	"	"
Cadmium	0.233	0.200	"	"	"	"	"	"
Copper	14.5	0.400	"	"	"	"	"	"
Lead	12.0	0.200	"	"	"	"	"	"
Nickel	14.8	0.400	"	"	"	"	"	"
Silver	0.0699	0.0200	"	"	"	"	"	"
Zinc	59.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	335	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	122	0.0500	"	"	"	"	"	"	
Sodium	52.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.621	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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:
05/28/24 07:34

FS-29 3FT
2403471-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.6	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.02	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-30-N 2FT
2403471-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.22	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	0.68	0.050	"	10	"	"	03/30/24	"	
Ethylbenzene	0.21	0.0050	"	1	"	"	03/30/24	"	
Xylenes (total)	1.0	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.19	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.048	0.0050	"	"	"	"	"	"	
Naphthalene	0.035	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	17	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0340	85.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	97.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0430	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.90	55.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-30-N 2FT
2403471-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0117	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00618	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0101	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0330	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0115	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.322	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.335	0.00500	"	"	"	"	"	"	E

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0201	60.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	57.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-30-N 2FT
2403471-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.58	0.200	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	202	0.400	"	"	"	"	"	"
Cadmium	0.315	0.200	"	"	"	"	"	"
Copper	13.9	0.400	"	"	"	"	"	"
Lead	10.0	0.200	"	"	"	"	"	"
Nickel	10.8	0.400	"	"	"	"	"	"
Silver	0.0403	0.0200	"	"	"	"	"	"
Zinc	33.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.2	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	8.76	0.0500	"	"	"	"	"	"	
Sodium	4.28	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.174	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-30-N 2FT
2403471-16 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.1	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.222	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

SS-30-S 2FT
2403471-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0331	82.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0434	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.86	70.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

SS-30-S 2FT
2403471-17 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0185	55.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

SS-30-S 2FT
2403471-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.31	0.200	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	64.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	12.2	0.400	"	"	"	"	"	"
Lead	11.2	0.200	"	"	"	"	"	"
Nickel	13.5	0.400	"	"	"	"	"	"
Silver	0.0646	0.0200	"	"	"	"	"	"
Zinc	52.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.2	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	18.7	0.0500	"	"	"	"	"	"	
Sodium	28.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.825	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henahan

Reported:
05/28/24 07:34

SS-30-S 2FT
2403471-17 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.1		%	1	BHD0126	04/04/24	04/04/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.489	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-30 3FT
2403471-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0328	82.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0437	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0355	88.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.34	50.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 07:34

FS-30 3FT
2403471-18 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-30 3FT
2403471-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.13	0.200	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	186	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	7.86	0.400	"	"	"	"	"	"
Lead	6.44	0.200	"	"	"	"	"	"
Nickel	7.36	0.400	"	"	"	"	"	"
Silver	0.0344	0.0200	"	"	"	"	"	"
Zinc	25.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	74.0	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	34.2	0.0500	"	"	"	"	"	"	
Sodium	11.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.280	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 07:34

FS-30 3FT
2403471-18 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.6		%	1	BHD0126	04/04/24	04/04/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.633	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-46 2FT
2403471-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0295	73.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0426	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0365	91.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.37	67.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-46 2FT
2403471-19 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	54.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0198	59.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 07:34

FS-46 2FT
2403471-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.38	0.180	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	45.2	0.360	"	"	"	"	"	"
Cadmium	0.206	0.180	"	"	"	"	"	"
Copper	12.8	0.360	"	"	"	"	"	"
Lead	12.2	0.180	"	"	"	"	"	"
Nickel	14.2	0.360	"	"	"	"	"	"
Silver	0.0767	0.0180	"	"	"	"	"	"
Zinc	58.1	0.360	"	"	"	"	"	"
Selenium	0.239	0.234	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	125	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	74.8	0.0500	"	"	"	"	"	"	
Sodium	62.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.09	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-46 2FT
2403471-19 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.5	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHD0250	04/08/24	04/09/24	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:
05/28/24 07:34

FS-47 2FT
2403471-20 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC1091	03/29/24	03/30/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0286	71.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0461	115 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC1093	03/29/24	03/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.37	67.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-47 2FT
2403471-20 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC1099	03/31/24	04/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0186	55.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0210	04/08/24	04/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-47 2FT
2403471-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	8.19	0.200	mg/kg dry	1	BHD0459	04/15/24	04/23/24	EPA 6020B
Barium	40.7	0.400	"	"	"	"	"	"
Cadmium	0.223	0.200	"	"	"	"	"	"
Copper	14.8	0.400	"	"	"	"	"	"
Lead	13.6	0.200	"	"	"	"	"	"
Nickel	15.0	0.400	"	"	"	"	"	"
Silver	0.0838	0.0200	"	"	"	"	"	"
Zinc	64.7	0.400	"	"	"	"	"	"
Selenium	0.310	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0020	04/01/24	04/03/24	EPA 7196A	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	359	0.0500	mg/L dry	1	BHD0248	04/08/24	05/23/24	EPA 6020B	
Magnesium	185	0.0500	"	"	"	"	"	"	
Sodium	99.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.06	0.00100	units	1	BHE0790	05/24/24	05/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

FS-47 2FT
2403471-20 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.9	%	1	BHD0126	04/04/24	04/04/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.54	0.0100	mmhos/cm	1	BHD0249	04/08/24	04/09/24	EPA 120.1	

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

Date Sampled: **03/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BHD0250	04/08/24	04/09/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC1091 - EPA 5030 Soil MS

Blank (BHC1091-BLK1)

Prepared & Analyzed: 03/29/24

Benzene	ND	0.0020	mg/kg
Toluene	ND	0.0050	"
Ethylbenzene	ND	0.0050	"
Xylenes (total)	ND	0.010	"
1,2,4-Trimethylbenzene	ND	0.0050	"
1,3,5-Trimethylbenzene	ND	0.0050	"
Naphthalene	ND	0.0038	"
Gasoline Range Hydrocarbons	ND	0.50	"

Surrogate: 1,2-Dichloroethane-d4	0.0310	"	0.0400	77.6	50-150
Surrogate: Toluene-d8	0.0428	"	0.0400	107	50-150
Surrogate: 4-Bromofluorobenzene	0.0393	"	0.0400	98.2	50-150

LCS (BHC1091-BS1)

Prepared & Analyzed: 03/29/24

Benzene	0.0932	0.0020	mg/kg	0.100	93.2	70-130
Toluene	0.0914	0.0050	"	0.100	91.4	70-130
Ethylbenzene	0.110	0.0050	"	0.100	110	70-130
m,p-Xylene	0.220	0.010	"	0.200	110	70-130
o-Xylene	0.103	0.0050	"	0.100	103	70-130
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100	106	70-130
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100	109	70-130
Naphthalene	0.0896	0.0038	"	0.100	89.6	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0314	"	0.0400	78.4	50-150
Surrogate: Toluene-d8	0.0405	"	0.0400	101	50-150
Surrogate: 4-Bromofluorobenzene	0.0383	"	0.0400	95.7	50-150

Matrix Spike (BHC1091-MS1)

Source: 2403471-01

Prepared & Analyzed: 03/29/24

Benzene	0.0844	0.0020	mg/kg	0.100	ND	84.4	70-130
Toluene	0.0844	0.0050	"	0.100	ND	84.4	70-130
Ethylbenzene	0.0941	0.0050	"	0.100	ND	94.1	70-130
m,p-Xylene	0.190	0.010	"	0.200	ND	95.0	70-130
o-Xylene	0.0906	0.0050	"	0.100	ND	90.6	70-130
1,2,4-Trimethylbenzene	0.0930	0.0050	"	0.100	ND	93.0	70-130
1,3,5-Trimethylbenzene	0.0929	0.0050	"	0.100	ND	92.9	70-130
Naphthalene	0.0551	0.0038	"	0.100	ND	55.1	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0349	"	0.0400	87.3	50-150
Surrogate: Toluene-d8	0.0413	"	0.0400	103	50-150
Surrogate: 4-Bromofluorobenzene	0.0378	"	0.0400	94.5	50-150

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHC1091 - EPA 5030 Soil MS

Matrix Spike Dup (BHC1091-MSD1)	Source: 2403471-01			Prepared & Analyzed: 03/29/24						
Benzene	0.0915	0.0020	mg/kg	0.100	ND	91.5	70-130	8.12	30	
Toluene	0.0976	0.0050	"	0.100	ND	97.6	70-130	14.6	30	
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	14.1	30	
m,p-Xylene	0.220	0.010	"	0.200	ND	110	70-130	14.7	30	
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130	11.3	30	
1,2,4-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130	7.75	30	
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	9.62	30	
Naphthalene	0.0592	0.0038	"	0.100	ND	59.2	70-130	7.19	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0330		"	0.0400		82.6	50-150			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.4	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henahan

Reported:
05/28/24 07:34

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC1093 - EPA 3550A

Blank (BHC1093-BLK1)

Prepared: 03/29/24 Analyzed: 03/30/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.8		"	12.5		94.6	30-150			

LCS (BHC1093-BS1)

Prepared: 03/29/24 Analyzed: 03/30/24

C10-C28 (DRO)	430	50	mg/kg	500		86.1	70-130			
Surrogate: o-Terphenyl	11.4		"	12.5		91.0	30-150			

Matrix Spike (BHC1093-MS1)

Source: 2403471-01

Prepared: 03/29/24 Analyzed: 03/30/24

C10-C28 (DRO)	453	50	mg/kg	500	12.2	88.1	70-130			
Surrogate: o-Terphenyl	8.16		"	12.5		65.3	30-150			

Matrix Spike Dup (BHC1093-MSD1)

Source: 2403471-01

Prepared: 03/29/24 Analyzed: 03/30/24

C10-C28 (DRO)	440	50	mg/kg	500	12.2	85.5	70-130	2.93	20	
Surrogate: o-Terphenyl	7.72		"	12.5		61.8	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC1099 - EPA 5030 Soil MS

Blank (BHC1099-BLK1)

Prepared: 03/31/24 Analyzed: 04/01/24

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0333	"	0.0333	100	40-150
Surrogate: Fluoranthene-d10	0.0326	"	0.0333	97.7	40-150

LCS (BHC1099-BS1)

Prepared: 03/31/24 Analyzed: 04/01/24

Acenaphthene	0.0300	0.00500	mg/kg	0.0333	90.1	31-137
Anthracene	0.0286	0.00500	"	0.0333	85.9	30-120
Benzo (a) anthracene	0.0278	0.00500	"	0.0333	83.3	30-120
Benzo (a) pyrene	0.0248	0.00500	"	0.0333	74.3	30-120
Benzo (b) fluoranthene	0.0249	0.00500	"	0.0333	74.7	30-120
Benzo (k) fluoranthene	0.0279	0.00500	"	0.0333	83.8	30-120
Chrysene	0.0314	0.00500	"	0.0333	94.3	30-120
Dibenz (a,h) anthracene	0.0254	0.00500	"	0.0333	76.3	30-120
Fluoranthene	0.0288	0.00500	"	0.0333	86.4	30-120
Fluorene	0.0290	0.00500	"	0.0333	87.1	30-120
Indeno (1,2,3-cd) pyrene	0.0334	0.00500	"	0.0333	100	30-120
Pyrene	0.0465	0.00500	"	0.0333	139	35-142
1-Methylnaphthalene	0.0314	0.00500	"	0.0333	94.3	35-142
2-Methylnaphthalene	0.0296	0.00500	"	0.0333	88.9	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0317	"	0.0333	95.2	40-150
Surrogate: Fluoranthene-d10	0.0297	"	0.0333	89.0	40-150

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC1099 - EPA 5030 Soil MS

Matrix Spike (BHC1099-MS1)

Source: 2403471-01

Prepared: 03/31/24 Analyzed: 04/01/24

Acenaphthene	0.0137	0.00500	mg/kg	0.0333	ND	41.0	31-137		
Anthracene	0.0185	0.00500	"	0.0333	ND	55.6	30-120		
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	ND	59.7	30-120		
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.0	30-120		
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	30-120		
Benzo (k) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120		
Chrysene	0.0196	0.00500	"	0.0333	ND	58.7	30-120		
Dibenz (a,h) anthracene	0.0190	0.00500	"	0.0333	ND	57.0	30-120		
Fluoranthene	0.0202	0.00500	"	0.0333	ND	60.5	30-120		
Fluorene	0.0167	0.00500	"	0.0333	ND	50.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0228	0.00500	"	0.0333	ND	68.3	30-120		
Pyrene	0.0265	0.00500	"	0.0333	ND	79.5	35-142		
1-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.3	15-130		
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0192		"	0.0333		57.7	40-150		
Surrogate: Fluoranthene-d10	0.0208		"	0.0333		62.4	40-150		

Matrix Spike Dup (BHC1099-MSD1)

Source: 2403471-01

Prepared: 03/31/24 Analyzed: 04/01/24

Acenaphthene	0.0145	0.00500	mg/kg	0.0333	ND	43.4	31-137	5.81	30
Anthracene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	2.41	30
Benzo (a) anthracene	0.0152	0.00500	"	0.0333	ND	45.7	30-120	26.6	30
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	5.27	30
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	30-120	4.27	30
Benzo (k) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	7.70	30
Chrysene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	9.66	30
Dibenz (a,h) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	9.24	30
Fluoranthene	0.0186	0.00500	"	0.0333	ND	55.7	30-120	8.34	30
Fluorene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	6.57	30
Indeno (1,2,3-cd) pyrene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	6.43	30
Pyrene	0.0224	0.00500	"	0.0333	ND	67.3	35-142	16.7	30
1-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.2	15-130	12.3	50
2-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.7	15-130	16.3	50
Surrogate: 2-Methylnaphthalene-d10	0.0167		"	0.0333		50.0	40-150		
Surrogate: Fluoranthene-d10	0.0200		"	0.0333		59.9	40-150		

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

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 BHD0210 - EPA 3050B

Blank (BHD0210-BLK1)

Prepared: 04/08/24 Analyzed: 04/25/24

Boron ND 2.00 mg/L

LCS (BHD0210-BS1)

Prepared: 04/08/24 Analyzed: 04/25/24

Boron 4.97 2.00 mg/L 5.00 99.4 80-120

Duplicate (BHD0210-DUP1)

Source: 2403471-01

Prepared: 04/08/24 Analyzed: 04/25/24

Boron 0.266 2.00 mg/L 0.290 8.63 20

Matrix Spike (BHD0210-MS1)

Source: 2403471-01

Prepared: 04/08/24 Analyzed: 04/25/24

Boron 5.39 2.00 mg/L 5.00 0.290 102 75-125

Matrix Spike Dup (BHD0210-MSD1)

Source: 2403471-01

Prepared: 04/08/24 Analyzed: 04/25/24

Boron 5.44 2.00 mg/L 5.00 0.290 103 75-125 1.02 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 - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

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 BHD0459 - EPA 3050B

Blank (BHD0459-BLK1)

Prepared: 04/15/24 Analyzed: 04/22/24

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 (BHD0459-BS1)

Prepared: 04/15/24 Analyzed: 04/22/24

Arsenic	40.8	0.200	mg/kg wet	40.0	102	80-120
Barium	40.1	0.400	"	40.0	100	80-120
Cadmium	1.94	0.200	"	2.00	97.0	80-120
Copper	40.6	0.400	"	40.0	101	80-120
Lead	19.1	0.200	"	20.0	95.3	80-120
Nickel	40.3	0.400	"	40.0	101	80-120
Silver	1.93	0.0200	"	2.00	96.4	80-120
Zinc	39.9	0.400	"	40.0	99.6	80-120
Selenium	3.99	0.260	"	4.00	99.7	80-120

Duplicate (BHD0459-DUP1)

Source: 2403471-01

Prepared: 04/15/24 Analyzed: 04/22/24

Arsenic	7.21	0.200	mg/kg dry	7.14	0.970	20
Barium	61.8	0.400	"	61.1	1.18	20
Cadmium	0.240	0.200	"	0.243	1.21	20
Copper	14.3	0.400	"	13.8	3.68	20
Lead	12.6	0.200	"	12.4	1.40	20
Nickel	15.3	0.400	"	14.7	4.35	20
Silver	0.0764	0.0200	"	0.0760	0.479	20
Zinc	60.7	0.400	"	59.8	1.43	20
Selenium	0.222	0.260	"	0.205	7.99	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 - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

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 BHD0459 - EPA 3050B

Matrix Spike (BHD0459-MS1)		Source: 2403471-01			Prepared: 04/15/24 Analyzed: 04/22/24					
Arsenic	51.6	0.181	mg/kg dry	44.1	7.14	101	75-125			
Barium	93.2	0.362	"	44.1	61.1	72.9	75-125			QM-07
Cadmium	2.45	0.181	"	2.20	0.243	100	75-125			
Copper	58.0	0.362	"	44.1	13.8	100	75-125			
Lead	32.4	0.181	"	22.0	12.4	90.7	75-125			
Nickel	59.5	0.362	"	44.1	14.7	102	75-125			
Silver	2.26	0.0181	"	2.20	0.0760	98.9	75-125			
Zinc	105	0.362	"	44.1	59.8	101	75-125			
Selenium	3.57	0.236	"	4.41	0.205	76.5	75-125			

Matrix Spike Dup (BHD0459-MSD1)		Source: 2403471-01			Prepared: 04/15/24 Analyzed: 04/22/24					
Arsenic	52.0	0.181	mg/kg dry	44.1	7.14	102	75-125	0.735	25	
Barium	93.1	0.362	"	44.1	61.1	72.7	75-125	0.0904	25	QM-07
Cadmium	2.49	0.181	"	2.20	0.243	102	75-125	1.43	25	
Copper	58.1	0.362	"	44.1	13.8	101	75-125	0.226	25	
Lead	32.5	0.181	"	22.0	12.4	91.4	75-125	0.489	25	
Nickel	59.8	0.362	"	44.1	14.7	102	75-125	0.516	25	
Silver	2.28	0.0181	"	2.20	0.0760	99.8	75-125	0.875	25	
Zinc	104	0.362	"	44.1	59.8	101	75-125	0.117	25	
Selenium	3.59	0.236	"	4.41	0.205	76.9	75-125	0.553	25	

Post Spike (BHD0459-PS1)		Source: 2403471-01			Prepared: 04/15/24 Analyzed: 04/23/24					
Arsenic	122		ug/l	100	14.7	107	75-125			
Barium	223		"	100	126	97.6	75-125			
Cadmium	5.58		"	5.00	0.500	102	75-125			
Copper	132		"	100	28.3	104	75-125			
Lead	74.0		"	50.0	25.5	97.1	75-125			
Nickel	135		"	100	30.2	105	75-125			
Silver	5.20		"	5.00	0.156	101	75-125			
Zinc	235		"	100	123	112	75-125			
Selenium	9.04		"	10.0	0.422	86.2	75-125			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

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 BHD0020 - 3060A Mod

Blank (BHD0020-BLK1)

Prepared: 04/01/24 Analyzed: 04/03/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0020-BS1)

Prepared: 04/01/24 Analyzed: 04/03/24

Chromium, Hexavalent 24.6 0.30 mg/kg wet 25.0 98.4 80-120

Duplicate (BHD0020-DUP1)

Source: 2403471-01

Prepared: 04/01/24 Analyzed: 04/03/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0020-MS1)

Source: 2403471-01

Prepared: 04/01/24 Analyzed: 04/03/24

Chromium, Hexavalent 26.6 0.30 mg/kg dry 30.4 ND 87.6 75-125

Matrix Spike Dup (BHD0020-MSD1)

Source: 2403471-01

Prepared: 04/01/24 Analyzed: 04/03/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 30.4 ND 91.4 75-125 4.25 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 - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

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

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

Batch BHD0248 - General Preparation

Blank (BHD0248-BLK1)

Prepared: 04/08/24 Analyzed: 05/23/24

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

LCS (BHD0248-BS1)

Prepared: 04/08/24 Analyzed: 05/23/24

Calcium	5.64	0.0500	mg/L wet	5.00	113	70-130
Magnesium	5.16	0.0500	"	5.00	103	70-130
Sodium	5.09	0.0500	"	5.00	102	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 - Rairdance Pad	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	05/28/24 07:34

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

Summit Scientific

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

Batch BHD0126 - General Preparation

Duplicate (BHD0126-DUP1)	Source: 2403448-01			Prepared & Analyzed: 04/04/24						
% Solids	82.6		%		81.7			1.17	20	

Atalio Bessin



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

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

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

Batch BHD0249 - General Preparation

Blank (BHD0249-BLK1)

Prepared: 04/08/24 Analyzed: 04/09/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0249-BS1)

Prepared: 04/08/24 Analyzed: 04/09/24

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 98.1 95-105

Duplicate (BHD0249-DUP1)

Source: 2403469-01

Prepared: 04/08/24 Analyzed: 04/09/24

Specific Conductance (EC) 0.355 0.0100 mmhos/cm 0.363 2.20 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 - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

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 BHD0250 - General Preparation

LCS (BHD0250-BS1)

Prepared: 04/08/24 Analyzed: 04/09/24

pH	9.02	pH Units	9.18	98.3	95-105
----	------	----------	------	------	--------

Duplicate (BHD0250-DUP1)

Source: 2403469-01

Prepared: 04/08/24 Analyzed: 04/09/24

pH	8.50	pH Units	8.74	2.78	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 - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 07:34

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

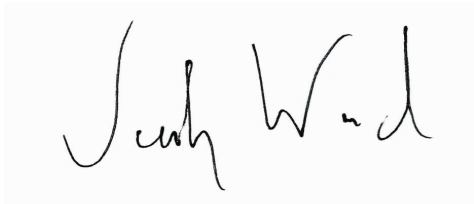
303.277.9310

May 08, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Raindance
Work Order #2404003

Enclosed are the results of analyses for samples received by Summit Scientific on 04/01/24 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 "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS-Release-6FT	2404003-01	Soil	04/01/24 00:00	04/01/24 17:00

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.

SUMMIT SCIENTIFIC

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

Lab ID	Page / of
2404003	

Client: Fremont		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henehan		Company: PDC	
City/State/Zip:		E-Mail:		Project Name/Location:	
Phone:		Project Name: RAINDANCE		AFE#:	
Sampler Name: HENEHAN		Project Number:		PO/Billing Codes:	
				Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HC1	HNO3	None	Other	Water	Soil	Air-Canister #	Other							
1	FS-Release-60T	4/1/24		2			✓			✓			✓						
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>[Signature]</i>	Date/Time: 4/1/24 1700	Received by: <i>[Signature]</i>	Date/Time: 4/1/24 1700	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 8.0	Corrected Temperature: e	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2404003Client: FramantClient Project ID: PaindanceShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil

Solid

☐

Water

☐

Other

☐

Temp (°C)

8.0

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
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 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

AS

4/1/24



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

FS-Release-6FT
2404003-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0036	04/01/24	04/01/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0438	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0037	04/01/24	04/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.58	60.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

FS-Release-6FT
2404003-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0041	04/02/24	04/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0166	49.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0118	04/03/24	04/10/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

FS-Release-6FT
2404003-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.90	0.200	mg/kg dry	1	BHD0556	04/17/24	05/07/24	EPA 6020B
Barium	23.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.66	0.400	"	"	"	"	"	"
Lead	7.98	0.200	"	"	"	"	"	"
Nickel	4.84	0.400	"	"	"	"	"	"
Silver	0.0508	0.0200	"	"	"	"	"	"
Zinc	20.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0114	04/03/24	04/08/24	EPA 7196A	

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

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	546	0.0500	mg/L dry	1	BHD0256	04/08/24	04/30/24	EPA 6020B	
Magnesium	317	0.0500	"	"	"	"	"	"	
Sodium	136	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.15	0.00100	units	1	BHD1100	04/30/24	04/30/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

FS-Release-6FT
2404003-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	BHD0134	04/04/24	04/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.82	0.0100	mmhos/cm	1	BHD0257	04/08/24	04/12/24	EPA 120.1	

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

Date Sampled: **04/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BHD0258	04/08/24	04/12/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHD0036 - EPA 5030 Soil MS

Blank (BHD0036-BLK1)

Prepared & Analyzed: 04/01/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0450		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0452		"	0.0400		113	50-150			

LCS (BHD0036-BS1)

Prepared & Analyzed: 04/01/24

Benzene	0.107	0.0020	mg/kg	0.100		107	70-130			
Toluene	0.130	0.0050	"	0.100		130	70-130			
Ethylbenzene	0.0943	0.0050	"	0.100		94.3	70-130			
m,p-Xylene	0.188	0.010	"	0.200		94.1	70-130			
o-Xylene	0.0885	0.0050	"	0.100		88.5	70-130			
1,2,4-Trimethylbenzene	0.0858	0.0050	"	0.100		85.8	70-130			
1,3,5-Trimethylbenzene	0.0898	0.0050	"	0.100		89.8	70-130			
Naphthalene	0.0741	0.0038	"	0.100		74.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0457		"	0.0400		114	50-150			
Surrogate: 4-Bromofluorobenzene	0.0437		"	0.0400		109	50-150			

Matrix Spike (BHD0036-MS1)

Source: 2404003-01

Prepared & Analyzed: 04/01/24

Benzene	0.122	0.0020	mg/kg	0.100	ND	122	70-130			
Toluene	0.119	0.0050	"	0.100	ND	119	70-130			
Ethylbenzene	0.0889	0.0050	"	0.100	ND	88.9	70-130			
m,p-Xylene	0.176	0.010	"	0.200	ND	88.0	70-130			
o-Xylene	0.0828	0.0050	"	0.100	ND	82.8	70-130			
1,2,4-Trimethylbenzene	0.0821	0.0050	"	0.100	ND	82.1	70-130			
1,3,5-Trimethylbenzene	0.0824	0.0050	"	0.100	ND	82.4	70-130			
Naphthalene	0.0587	0.0038	"	0.100	ND	58.7	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0433		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0451		"	0.0400		113	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHD0036 - EPA 5030 Soil MS

Matrix Spike Dup (BHD0036-MSD1)		Source: 2404003-01			Prepared & Analyzed: 04/01/24					
Benzene	0.123	0.0020	mg/kg	0.100	ND	123	70-130	1.17	30	
Toluene	0.118	0.0050	"	0.100	ND	118	70-130	1.09	30	
Ethylbenzene	0.0876	0.0050	"	0.100	ND	87.6	70-130	1.50	30	
m,p-Xylene	0.170	0.010	"	0.200	ND	84.9	70-130	3.49	30	
o-Xylene	0.0809	0.0050	"	0.100	ND	80.9	70-130	2.38	30	
1,2,4-Trimethylbenzene	0.0791	0.0050	"	0.100	ND	79.1	70-130	3.76	30	
1,3,5-Trimethylbenzene	0.0822	0.0050	"	0.100	ND	82.2	70-130	0.146	30	
Naphthalene	0.0611	0.0038	"	0.100	ND	61.1	70-130	4.06	30	QM-07
Surrogate: 1,2-Dichloroethane-d4		0.0403	"	0.0400		101	50-150			
Surrogate: Toluene-d8		0.0437	"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene		0.0444	"	0.0400		111	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHD0037 - EPA 3550A

Blank (BHD0037-BLK1)

Prepared & Analyzed: 04/01/24

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

Surrogate: o-Terphenyl	11.6	"	12.5	92.7	30-150
------------------------	------	---	------	------	--------

LCS (BHD0037-BS1)

Prepared & Analyzed: 04/01/24

C10-C28 (DRO)	517	50	mg/kg	500	103	70-130
Surrogate: o-Terphenyl	10.9	"	12.5	87.2	30-150	

Matrix Spike (BHD0037-MS1)

Source: 2404003-01

Prepared & Analyzed: 04/01/24

C10-C28 (DRO)	413	50	mg/kg	500	48.2	73.0	70-130
Surrogate: o-Terphenyl	9.24	"	12.5	73.9	30-150		

Matrix Spike Dup (BHD0037-MSD1)

Source: 2404003-01

Prepared & Analyzed: 04/01/24

C10-C28 (DRO)	429	50	mg/kg	500	48.2	76.1	70-130	3.62	20
Surrogate: o-Terphenyl	10.1	"	12.5	81.1	30-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raintance
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0041 - EPA 5030 Soil MS

Blank (BHD0041-BLK1)

Prepared & Analyzed: 04/02/24

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0301	"	0.0333	90.3	40-150
Surrogate: Fluoranthene-d10	0.0325	"	0.0333	97.4	40-150

LCS (BHD0041-BS1)

Prepared & Analyzed: 04/02/24

Acenaphthene	0.0346	0.00500	mg/kg	0.0333	104	31-137
Anthracene	0.0328	0.00500	"	0.0333	98.5	30-120
Benzo (a) anthracene	0.0295	0.00500	"	0.0333	88.5	30-120
Benzo (a) pyrene	0.0262	0.00500	"	0.0333	78.6	30-120
Benzo (b) fluoranthene	0.0233	0.00500	"	0.0333	70.0	30-120
Benzo (k) fluoranthene	0.0272	0.00500	"	0.0333	81.7	30-120
Chrysene	0.0324	0.00500	"	0.0333	97.2	30-120
Dibenz (a,h) anthracene	0.0241	0.00500	"	0.0333	72.4	30-120
Fluoranthene	0.0324	0.00500	"	0.0333	97.2	30-120
Fluorene	0.0322	0.00500	"	0.0333	96.7	30-120
Indeno (1,2,3-cd) pyrene	0.0351	0.00500	"	0.0333	105	30-120
Pyrene	0.0420	0.00500	"	0.0333	126	35-142
1-Methylnaphthalene	0.0361	0.00500	"	0.0333	108	35-142
2-Methylnaphthalene	0.0341	0.00500	"	0.0333	102	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0338	"	0.0333	102	40-150
Surrogate: Fluoranthene-d10	0.0327	"	0.0333	98.1	40-150

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0041 - EPA 5030 Soil MS

Matrix Spike (BHD0041-MS1)

Source: 2403432-01

Prepared & Analyzed: 04/02/24

Acenaphthene	0.0152	0.00500	mg/kg	0.0333	ND	45.6	31-137		
Anthracene	0.0180	0.00500	"	0.0333	ND	54.1	30-120		
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	ND	59.8	30-120		
Benzo (a) pyrene	0.0173	0.00500	"	0.0333	ND	51.9	30-120		
Benzo (b) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.4	30-120		
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	50.9	30-120		
Chrysene	0.0191	0.00500	"	0.0333	ND	57.3	30-120		
Dibenz (a,h) anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120		
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.8	30-120		
Fluorene	0.0159	0.00500	"	0.0333	ND	47.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0190	0.00500	"	0.0333	ND	56.9	30-120		
Pyrene	0.0235	0.00500	"	0.0333	ND	70.6	35-142		
1-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.1	15-130		
2-Methylnaphthalene	0.0159	0.00500	"	0.0333	ND	47.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0174		"	0.0333		52.1	40-150		
Surrogate: Fluoranthene-d10	0.0199		"	0.0333		59.8	40-150		

Matrix Spike Dup (BHD0041-MSD1)

Source: 2403432-01

Prepared & Analyzed: 04/02/24

Acenaphthene	0.0179	0.00500	mg/kg	0.0333	ND	53.8	31-137	16.5	30
Anthracene	0.0163	0.00500	"	0.0333	ND	48.9	30-120	10.1	30
Benzo (a) anthracene	0.0158	0.00500	"	0.0333	ND	47.3	30-120	23.3	30
Benzo (a) pyrene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	15.8	30
Benzo (b) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.7	30-120	0.561	30
Benzo (k) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	13.1	30
Chrysene	0.0153	0.00500	"	0.0333	ND	45.8	30-120	22.4	30
Dibenz (a,h) anthracene	0.0223	0.00500	"	0.0333	ND	67.0	30-120	2.32	30
Fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	21.2	30
Fluorene	0.0178	0.00500	"	0.0333	ND	53.4	30-120	11.4	30
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	7.53	30
Pyrene	0.0198	0.00500	"	0.0333	ND	59.3	35-142	17.4	30
1-Methylnaphthalene	0.0165	0.00500	"	0.0333	ND	49.4	15-130	5.43	50
2-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.1	15-130	0.912	50
Surrogate: 2-Methylnaphthalene-d10	0.0174		"	0.0333		52.3	40-150		
Surrogate: Fluoranthene-d10	0.0161		"	0.0333		48.4	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

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 BHD0118 - EPA 3050B

Blank (BHD0118-BLK1)

Prepared: 04/03/24 Analyzed: 04/10/24

Boron ND 2.00 mg/L

LCS (BHD0118-BS1)

Prepared: 04/03/24 Analyzed: 04/10/24

Boron 4.61 2.00 mg/L 5.00 92.2 80-120

Duplicate (BHD0118-DUP1)

Source: 2403435-01

Prepared: 04/03/24 Analyzed: 04/10/24

Boron 0.149 2.00 mg/L 0.166 10.7 20

Matrix Spike (BHD0118-MS1)

Source: 2403435-01

Prepared: 04/03/24 Analyzed: 04/10/24

Boron 4.69 2.00 mg/L 5.00 0.166 90.4 75-125

Matrix Spike Dup (BHD0118-MSD1)

Source: 2403435-01

Prepared: 04/03/24 Analyzed: 04/10/24

Boron 4.65 2.00 mg/L 5.00 0.166 89.6 75-125 0.860 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

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 BHD0556 - EPA 3050B

Blank (BHD0556-BLK1)

Prepared: 04/17/24 Analyzed: 05/07/24

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 (BHD0556-BS1)

Prepared: 04/17/24 Analyzed: 05/07/24

Arsenic	39.4	0.200	mg/kg wet	40.0	98.5	80-120
Barium	39.2	0.400	"	40.0	98.0	80-120
Cadmium	1.94	0.200	"	2.00	97.0	80-120
Copper	40.4	0.400	"	40.0	101	80-120
Lead	18.9	0.200	"	20.0	94.7	80-120
Nickel	39.7	0.400	"	40.0	99.2	80-120
Silver	1.94	0.0200	"	2.00	97.1	80-120
Zinc	40.3	0.400	"	40.0	101	80-120
Selenium	4.46	0.260	"	4.00	111	80-120

Duplicate (BHD0556-DUP1)

Source: 2403430-06

Prepared: 04/17/24 Analyzed: 05/07/24

Arsenic	1.17	0.200	mg/kg dry	1.20	2.86	20
Barium	31.3	0.400	"	30.9	1.13	20
Cadmium	0.0656	0.200	"	0.0652	0.626	20
Copper	1.87	0.400	"	1.87	0.0695	20
Lead	2.49	0.200	"	2.40	3.86	20
Nickel	2.30	0.400	"	2.43	5.91	20
Silver	0.0147	0.0200	"	0.0139	5.51	20
Zinc	8.39	0.400	"	8.40	0.0818	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

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 BHD0556 - EPA 3050B

Matrix Spike (BHD0556-MS1)

Source: 2403430-06

Prepared: 04/17/24 Analyzed: 05/07/24

Arsenic	47.3	0.200	mg/kg dry	45.0	1.20	102	75-125
Barium	74.2	0.400	"	45.0	30.9	96.3	75-125
Cadmium	2.32	0.200	"	2.25	0.0652	101	75-125
Copper	38.2	0.400	"	45.0	1.87	80.8	75-125
Lead	24.5	0.200	"	22.5	2.40	98.2	75-125
Nickel	38.3	0.400	"	45.0	2.43	79.8	75-125
Silver	2.20	0.0200	"	2.25	0.0139	97.3	75-125
Zinc	45.0	0.400	"	45.0	8.40	81.3	75-125
Selenium	4.78	0.260	"	4.50	ND	106	75-125

Matrix Spike Dup (BHD0556-MSD1)

Source: 2403430-06

Prepared: 04/17/24 Analyzed: 05/07/24

Arsenic	47.4	0.200	mg/kg dry	45.0	1.20	103	75-125	0.391	25
Barium	73.7	0.400	"	45.0	30.9	95.1	75-125	0.730	25
Cadmium	2.34	0.200	"	2.25	0.0652	101	75-125	0.675	25
Copper	37.7	0.400	"	45.0	1.87	79.6	75-125	1.31	25
Lead	24.4	0.200	"	22.5	2.40	98.0	75-125	0.204	25
Nickel	37.9	0.400	"	45.0	2.43	78.8	75-125	1.20	25
Silver	2.21	0.0200	"	2.25	0.0139	97.6	75-125	0.326	25
Zinc	44.7	0.400	"	45.0	8.40	80.8	75-125	0.580	25
Selenium	4.79	0.260	"	4.50	ND	107	75-125	0.188	25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

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 BHD0114 - 3060A Mod

Blank (BHD0114-BLK1)

Prepared: 04/03/24 Analyzed: 04/08/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0114-BS1)

Prepared: 04/03/24 Analyzed: 04/08/24

Chromium, Hexavalent 24.0 0.30 mg/kg wet 25.0 96.0 80-120

Duplicate (BHD0114-DUP1)

Source: 2403399-01

Prepared: 04/03/24 Analyzed: 04/08/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0114-MS1)

Source: 2403399-01

Prepared: 04/03/24 Analyzed: 04/08/24

Chromium, Hexavalent 30.7 0.30 mg/kg dry 32.3 ND 95.0 75-125

Matrix Spike Dup (BHD0114-MSD1)

Source: 2403399-01

Prepared: 04/03/24 Analyzed: 04/08/24

Chromium, Hexavalent 30.8 0.30 mg/kg dry 32.3 ND 95.2 75-125 0.210 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

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

Summit Scientific

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

Batch BHD0256 - General Preparation

Blank (BHD0256-BLK1)

Prepared: 04/08/24 Analyzed: 04/30/24

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

LCS (BHD0256-BS1)

Prepared: 04/08/24 Analyzed: 04/30/24

Calcium	6.19	0.0500	mg/L wet	5.00	124	70-130
Magnesium	5.44	0.0500	"	5.00	109	70-130
Sodium	5.23	0.0500	"	5.00	105	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]

Project Manager: Paul Henchan

Reported:

05/08/24 15:36

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

Summit Scientific

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

Batch BHD0134 - General Preparation

Duplicate (BHD0134-DUP1)		Source: 2403432-01			Prepared: 04/04/24 Analyzed: 04/08/24					
% Solids	76.1		%		76.4			0.470	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

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

Summit Scientific

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

Batch BHD0257 - General Preparation

Blank (BHD0257-BLK1)

Prepared: 04/08/24 Analyzed: 04/12/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0257-BS1)

Prepared: 04/08/24 Analyzed: 04/12/24

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

Duplicate (BHD0257-DUP1)

Source: 2403383-01

Prepared: 04/08/24 Analyzed: 04/12/24

Specific Conductance (EC) 0.621 0.0100 mmhos/cm 0.637 2.58 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

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 BHD0258 - General Preparation

LCS (BHD0258-BS1)

Prepared: 04/08/24 Analyzed: 04/12/24

pH	9.15	pH Units	9.18	99.7	95-105
----	------	----------	------	------	--------

Duplicate (BHD0258-DUP1)

Source: 2403383-01

Prepared: 04/08/24 Analyzed: 04/12/24

pH	7.98	pH Units	7.95	0.377	20
----	------	----------	------	-------	----

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:36

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 08, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

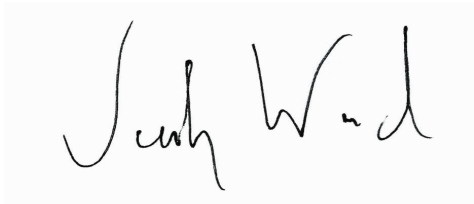
Wellington, CO 80549

RE: PDC - Raindance Pad

Work Order #2404016

Enclosed are the results of analyses for samples received by Summit Scientific on 04/02/24 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-30-N-2 3FT	2404016-01	Soil	04/02/24 00:00	04/02/24 17:30
SS-41-2	2404016-02	Soil	04/02/24 00:00	04/02/24 17:30
SS-42-2	2404016-03	Soil	04/02/24 00:00	04/02/24 17:30
FS-41-2	2404016-04	Soil	04/02/24 00:00	04/02/24 17:30
FS-44-2	2404016-05	Soil	04/02/24 00:00	04/02/24 17:30

Summit Scientific

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Summit Scientific

2404016

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

Page 1 of 1

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail: PDC

City/State/Zip:

Phone:

Project Name: RAINDANCE PAD

Sampler Name: HENEHAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested										Special Instructions			
					HCl	HNO3	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	SS-30-N-2 3K	4/2/24		2			✓			✓				✓	✓	✓	✓	✓								
2	SS-41-2																									
3	SS-42-2																									
4	FS-41-2																									
5	FS-44-2																									
6																										
7																										
8																										
9																										
10																										

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn-Around Time (Check)	Notes:
PA/KS	4/2/24 1730	[Signature]	4/2/24 1730	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: 8.4	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2404016Client: FremontClient Project ID: Raindance PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

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"/>	NOTE
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
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 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

36



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

SS-30-N-2 3FT
2404016-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0062	04/02/24	04/02/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0345	86.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0423	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0434	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0063	04/02/24	04/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	5.84	46.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/08/24 15:41

SS-30-N-2 3FT
2404016-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHD0069	04/03/24	04/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0250	74.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0251	75.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0220	04/08/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

SS-30-N-2 3FT
2404016-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.35	0.200	mg/kg dry	1	BHD0593	04/18/24	04/23/24	EPA 6020B
Barium	300	0.400	"	"	"	"	"	"
Cadmium	0.225	0.200	"	"	"	"	"	"
Copper	8.96	0.400	"	"	"	"	"	"
Lead	7.90	0.200	"	"	"	"	"	"
Nickel	5.07	0.400	"	"	"	"	"	"
Silver	0.0624	0.0200	"	"	"	"	"	"
Zinc	27.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0117	04/03/24	04/08/24	EPA 7196A	

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

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.3	0.0500	mg/L dry	1	BHD0327	04/10/24	04/30/24	EPA 6020B	
Magnesium	18.5	0.0500	"	"	"	"	"	"	
Sodium	36.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.997	0.00100	units	1	BHD1082	04/30/24	04/30/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/08/24 15:41

SS-30-N-2 3FT
2404016-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.4	%	1	BHD0165	04/05/24	04/06/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.577	0.0100	mmhos/cm	1	BHD0329	04/10/24	04/11/24	EPA 120.1	

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

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BHD0328	04/10/24	04/11/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/08/24 15:41

SS-41-2
2404016-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0062	04/02/24	04/02/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0356	89.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0450	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0441	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0063	04/02/24	04/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.23	57.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

SS-41-2
2404016-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0069	04/03/24	04/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0160	48.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0220	04/08/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/08/24 15:41

SS-41-2
2404016-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.01	0.200	mg/kg dry	1	BHD0593	04/18/24	04/23/24	EPA 6020B
Barium	28.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	10.2	0.400	"	"	"	"	"	"
Lead	10.9	0.200	"	"	"	"	"	"
Nickel	6.51	0.400	"	"	"	"	"	"
Silver	0.0961	0.0200	"	"	"	"	"	"
Zinc	45.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0117	04/03/24	04/08/24	EPA 7196A	

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

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	459	0.0500	mg/L dry	1	BHD0327	04/10/24	04/30/24	EPA 6020B	
Magnesium	352	0.0500	"	"	"	"	"	"	
Sodium	149	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.27	0.00100	units	1	BHD1082	04/30/24	04/30/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

SS-41-2
2404016-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BHD0165	04/05/24	04/06/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.96	0.0100	mmhos/cm	1	BHD0329	04/10/24	04/11/24	EPA 120.1	

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

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BHD0328	04/10/24	04/11/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/08/24 15:41

SS-42-2
2404016-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0062	04/02/24	04/02/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0351	87.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0438	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0063	04/02/24	04/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.77	54.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

SS-42-2
2404016-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0069	04/03/24	04/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0132	39.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0111	33.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0220	04/08/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/08/24 15:41

SS-42-2
2404016-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.16	0.181	mg/kg dry	1	BHD0593	04/18/24	04/23/24	EPA 6020B
Barium	15.5	0.362	"	"	"	"	"	"
Cadmium	ND	0.181	"	"	"	"	"	"
Copper	7.91	0.362	"	"	"	"	"	"
Lead	9.64	0.181	"	"	"	"	"	"
Nickel	6.12	0.362	"	"	"	"	"	"
Silver	0.0926	0.0181	"	"	"	"	"	"
Zinc	40.8	0.362	"	"	"	"	"	"
Selenium	ND	0.236	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0117	04/03/24	04/08/24	EPA 7196A	

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

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	151	0.0500	mg/L dry	1	BHD0327	04/10/24	04/30/24	EPA 6020B	
Magnesium	63.4	0.0500	"	"	"	"	"	"	
Sodium	32.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.565	0.00100	units	1	BHD1082	04/30/24	04/30/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/08/24 15:41

SS-42-2
2404016-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.4		%	1	BHD0165	04/05/24	04/06/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.19	0.0100	mmhos/cm	1	BHD0329	04/10/24	04/11/24	EPA 120.1	

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

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHD0328	04/10/24	04/11/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/08/24 15:41

FS-41-2
2404016-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0062	04/02/24	04/02/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0366	91.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0442	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0063	04/02/24	04/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.05	56.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

FS-41-2
2404016-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0069	04/03/24	04/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0220	04/08/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/08/24 15:41

FS-41-2
2404016-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.08	0.200	mg/kg dry	1	BHD0593	04/18/24	04/23/24	EPA 6020B
Barium	44.0	0.400	"	"	"	"	"	"
Cadmium	0.258	0.200	"	"	"	"	"	"
Copper	13.9	0.400	"	"	"	"	"	"
Lead	13.3	0.200	"	"	"	"	"	"
Nickel	7.09	0.400	"	"	"	"	"	"
Silver	0.0966	0.0200	"	"	"	"	"	"
Zinc	51.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0117	04/03/24	04/08/24	EPA 7196A	

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

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	551	0.0500	mg/L dry	1	BHD0327	04/10/24	04/30/24	EPA 6020B	
Magnesium	449	0.0500	"	"	"	"	"	"	
Sodium	104	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.797	0.00100	units	1	BHD1082	04/30/24	04/30/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

FS-41-2
2404016-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.8	%	1	BHD0165	04/05/24	04/06/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.54	0.0100	mmhos/cm	1	BHD0329	04/10/24	04/11/24	EPA 120.1	

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

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHD0328	04/10/24	04/11/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

FS-44-2
2404016-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0062	04/02/24	04/03/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0362	90.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0441	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0446	111 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0063	04/02/24	04/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.54	60.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

FS-44-2
2404016-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0069	04/03/24	04/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0136	40.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0127	38.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0220	04/08/24	05/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

FS-44-2
2404016-05 (Soil)

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Total Metals by EPA 6020B

Arsenic	6.66	0.200	mg/kg dry	1	BHD0593	04/18/24	04/23/24	EPA 6020B
Barium	66.4	0.400	"	"	"	"	"	"
Cadmium	0.261	0.200	"	"	"	"	"	"
Copper	13.2	0.400	"	"	"	"	"	"
Lead	12.4	0.200	"	"	"	"	"	"
Nickel	7.00	0.400	"	"	"	"	"	"
Silver	0.0942	0.0200	"	"	"	"	"	"
Zinc	47.4	0.400	"	"	"	"	"	"
Selenium	0.330	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0117	04/03/24	04/08/24	EPA 7196A	

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

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	209	0.0500	mg/L dry	1	BHD0327	04/10/24	04/30/24	EPA 6020B	
Magnesium	129	0.0500	"	"	"	"	"	"	
Sodium	131	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.76	0.00100	units	1	BHD1082	04/30/24	04/30/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

FS-44-2
2404016-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.4	%	1	BHD0165	04/05/24	04/06/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.09	0.0100	mmhos/cm	1	BHD0329	04/10/24	04/11/24	EPA 120.1	

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

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHD0328	04/10/24	04/11/24	EPA 9045D	

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

Reported:
05/08/24 15:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHD0062 - EPA 5030 Soil MS

Blank (BHD0062-BLK1)

Prepared: 04/02/24 Analyzed: 04/03/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0347		"	0.0400		86.8	50-150			
Surrogate: Toluene-d8	0.0439		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0440		"	0.0400		110	50-150			

LCS (BHD0062-BS1)

Prepared: 04/02/24 Analyzed: 04/03/24

Benzene	0.113	0.0020	mg/kg	0.100		113	70-130			
Toluene	0.107	0.0050	"	0.100		107	70-130			
Ethylbenzene	0.0963	0.0050	"	0.100		96.3	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.6	70-130			
o-Xylene	0.0898	0.0050	"	0.100		89.8	70-130			
1,2,4-Trimethylbenzene	0.0851	0.0050	"	0.100		85.1	70-130			
1,3,5-Trimethylbenzene	0.0877	0.0050	"	0.100		87.7	70-130			
Naphthalene	0.0812	0.0038	"	0.100		81.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0341		"	0.0400		85.4	50-150			
Surrogate: Toluene-d8	0.0437		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400		106	50-150			

Matrix Spike (BHD0062-MS1)

Source: 2404016-01

Prepared: 04/02/24 Analyzed: 04/03/24

Benzene	0.121	0.0020	mg/kg	0.100	ND	121	70-130			
Toluene	0.115	0.0050	"	0.100	ND	115	70-130			
Ethylbenzene	0.0918	0.0050	"	0.100	ND	91.8	70-130			
m,p-Xylene	0.180	0.010	"	0.200	ND	90.2	70-130			
o-Xylene	0.0846	0.0050	"	0.100	ND	84.6	70-130			
1,2,4-Trimethylbenzene	0.0787	0.0050	"	0.100	ND	78.7	70-130			
1,3,5-Trimethylbenzene	0.0821	0.0050	"	0.100	ND	82.1	70-130			
Naphthalene	0.0508	0.0038	"	0.100	ND	50.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0352		"	0.0400		88.1	50-150			
Surrogate: Toluene-d8	0.0442		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0425		"	0.0400		106	50-150			

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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHD0062 - EPA 5030 Soil MS

Matrix Spike Dup (BHD0062-MSD1)

Source: 2404016-01

Prepared: 04/02/24 Analyzed: 04/03/24

Benzene	0.111	0.0020	mg/kg	0.100	ND	111	70-130	9.19	30	
Toluene	0.100	0.0050	"	0.100	ND	100	70-130	13.9	30	
Ethylbenzene	0.0799	0.0050	"	0.100	ND	79.9	70-130	13.8	30	
m,p-Xylene	0.163	0.010	"	0.200	ND	81.4	70-130	10.2	30	
o-Xylene	0.0782	0.0050	"	0.100	ND	78.2	70-130	7.89	30	
1,2,4-Trimethylbenzene	0.0712	0.0050	"	0.100	ND	71.2	70-130	10.0	30	
1,3,5-Trimethylbenzene	0.0753	0.0050	"	0.100	ND	75.3	70-130	8.69	30	
Naphthalene	0.0471	0.0038	"	0.100	ND	47.1	70-130	7.48	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0349		"	0.0400		87.3	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0435		"	0.0400		109	50-150			

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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHD0063 - EPA 3550A

Blank (BHD0063-BLK1)

Prepared & Analyzed: 04/02/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.4		"	12.5		99.2	30-150			

LCS (BHD0063-BS1)

Prepared & Analyzed: 04/02/24

C10-C28 (DRO)	442	50	mg/kg	500		88.4	70-130			
Surrogate: o-Terphenyl	10.1		"	12.5		80.8	30-150			

Matrix Spike (BHD0063-MS1)

Source: 2404016-01

Prepared & Analyzed: 04/02/24

C10-C28 (DRO)	432	50	mg/kg	500	21.0	82.3	70-130			
Surrogate: o-Terphenyl	6.28		"	12.5		50.3	30-150			

Matrix Spike Dup (BHD0063-MSD1)

Source: 2404016-01

Prepared & Analyzed: 04/02/24

C10-C28 (DRO)	426	50	mg/kg	500	21.0	81.0	70-130	1.50	20	
Surrogate: o-Terphenyl	6.36		"	12.5		50.9	30-150			

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

Reported:
05/08/24 15:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0069 - EPA 5030 Soil MS

Blank (BHD0069-BLK1)

Prepared & Analyzed: 04/03/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0295		"	0.0333		88.6	40-150			
Surrogate: Fluoranthene-d10	0.0273		"	0.0333		81.8	40-150			

LCS (BHD0069-BS1)

Prepared & Analyzed: 04/03/24

Acenaphthene	0.0301	0.00500	mg/kg	0.0333		90.2	31-137			
Anthracene	0.0294	0.00500	"	0.0333		88.2	30-120			
Benzo (a) anthracene	0.0270	0.00500	"	0.0333		81.1	30-120			
Benzo (a) pyrene	0.0239	0.00500	"	0.0333		71.8	30-120			
Benzo (b) fluoranthene	0.0294	0.00500	"	0.0333		88.1	30-120			
Benzo (k) fluoranthene	0.0300	0.00500	"	0.0333		90.0	30-120			
Chrysene	0.0295	0.00500	"	0.0333		88.6	30-120			
Dibenz (a,h) anthracene	0.0196	0.00500	"	0.0333		58.9	30-120			
Fluoranthene	0.0290	0.00500	"	0.0333		87.0	30-120			
Fluorene	0.0256	0.00500	"	0.0333		76.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333		67.5	30-120			
Pyrene	0.0334	0.00500	"	0.0333		100	35-142			
1-Methylnaphthalene	0.0315	0.00500	"	0.0333		94.6	35-142			
2-Methylnaphthalene	0.0311	0.00500	"	0.0333		93.4	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0312		"	0.0333		93.7	40-150			
Surrogate: Fluoranthene-d10	0.0287		"	0.0333		86.2	40-150			

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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:
05/08/24 15:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0069 - EPA 5030 Soil MS

Matrix Spike (BHD0069-MS1)

Source: 2403456-01

Prepared & Analyzed: 04/03/24

Acenaphthene	0.0211	0.00500	mg/kg	0.0333	ND	63.2	31-137				
Anthracene	0.0210	0.00500	"	0.0333	ND	63.1	30-120				
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	ND	66.4	30-120				
Benzo (a) pyrene	0.0197	0.00500	"	0.0333	ND	59.0	30-120				
Benzo (b) fluoranthene	0.0206	0.00500	"	0.0333	ND	61.9	30-120				
Benzo (k) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.8	30-120				
Chrysene	0.0210	0.00500	"	0.0333	ND	62.9	30-120				
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.3	30-120				
Fluoranthene	0.0217	0.00500	"	0.0333	ND	65.1	30-120				
Fluorene	0.0195	0.00500	"	0.0333	ND	58.5	30-120				
Indeno (1,2,3-cd) pyrene	0.0174	0.00500	"	0.0333	ND	52.1	30-120				
Pyrene	0.0236	0.00500	"	0.0333	ND	70.9	35-142				
1-Methylnaphthalene	0.0232	0.00500	"	0.0333	ND	69.5	15-130				
2-Methylnaphthalene	0.0244	0.00500	"	0.0333	ND	73.2	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.2	40-150				
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.5	40-150				

Matrix Spike Dup (BHD0069-MSD1)

Source: 2403456-01

Prepared & Analyzed: 04/03/24

Acenaphthene	0.0190	0.00500	mg/kg	0.0333	ND	56.9	31-137	10.4	30
Anthracene	0.0195	0.00500	"	0.0333	ND	58.6	30-120	7.29	30
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	7.59	30
Benzo (a) pyrene	0.0190	0.00500	"	0.0333	ND	56.9	30-120	3.67	30
Benzo (b) fluoranthene	0.0199	0.00500	"	0.0333	ND	59.8	30-120	3.52	30
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333	ND	60.4	30-120	8.44	30
Chrysene	0.0187	0.00500	"	0.0333	ND	56.0	30-120	11.6	30
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333	ND	40.8	30-120	1.37	30
Fluoranthene	0.0199	0.00500	"	0.0333	ND	59.8	30-120	8.51	30
Fluorene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	7.45	30
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	15.4	30
Pyrene	0.0213	0.00500	"	0.0333	ND	63.9	35-142	10.4	30
1-Methylnaphthalene	0.0178	0.00500	"	0.0333	ND	53.4	15-130	26.1	50
2-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.6	15-130	2.18	50
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.8	40-150		
Surrogate: Fluoranthene-d10	0.0207		"	0.0333		62.0	40-150		

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

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 BHD0220 - EPA 3050B

Blank (BHD0220-BLK1)

Prepared: 04/08/24 Analyzed: 05/08/24

Boron ND 2.00 mg/L

LCS (BHD0220-BS1)

Prepared: 04/08/24 Analyzed: 05/08/24

Boron 5.06 2.00 mg/L 5.00 101 80-120

Duplicate (BHD0220-DUP1)

Source: 2403405-01

Prepared: 04/08/24 Analyzed: 05/08/24

Boron 0.180 2.00 mg/L 0.194 7.52 20

Matrix Spike (BHD0220-MS1)

Source: 2403405-01

Prepared: 04/08/24 Analyzed: 05/08/24

Boron 5.41 2.00 mg/L 5.00 0.194 104 75-125

Matrix Spike Dup (BHD0220-MSD1)

Source: 2403405-01

Prepared: 04/08/24 Analyzed: 05/08/24

Boron 5.64 2.00 mg/L 5.00 0.194 109 75-125 4.10 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/08/24 15:41

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 BHD0593 - EPA 3050B

Blank (BHD0593-BLK1)

Prepared: 04/18/24 Analyzed: 04/23/24

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 (BHD0593-BS1)

Prepared: 04/18/24 Analyzed: 04/23/24

Arsenic	38.9	0.200	mg/kg wet	40.0	97.2	80-120
Barium	37.7	0.400	"	40.0	94.1	80-120
Cadmium	1.88	0.200	"	2.00	93.9	80-120
Copper	39.9	0.400	"	40.0	99.7	80-120
Lead	18.7	0.200	"	20.0	93.5	80-120
Nickel	38.3	0.400	"	40.0	95.8	80-120
Silver	1.91	0.0200	"	2.00	95.7	80-120
Zinc	38.4	0.400	"	40.0	96.0	80-120
Selenium	3.99	0.260	"	4.00	99.8	80-120

Duplicate (BHD0593-DUP1)

Source: 2403469-01

Prepared: 04/18/24 Analyzed: 04/23/24

Arsenic	1.05	0.200	mg/kg dry	0.936	11.1	20
Barium	58.2	0.400	"	49.6	16.0	20
Cadmium	0.144	0.200	"	0.128	11.1	20
Copper	3.26	0.400	"	3.10	5.15	20
Lead	4.05	0.200	"	3.55	12.9	20
Nickel	3.52	0.400	"	3.40	3.49	20
Silver	0.0374	0.0200	"	0.0330	12.4	20
Zinc	12.8	0.400	"	12.3	4.24	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/08/24 15:41

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 BHD0593 - EPA 3050B

Matrix Spike (BHD0593-MS1)		Source: 2403469-01			Prepared: 04/18/24 Analyzed: 04/23/24					
Arsenic	46.4	0.200	mg/kg dry	45.6	0.936	99.8	75-125			
Barium	92.8	0.400	"	45.6	49.6	95.0	75-125			
Cadmium	2.37	0.200	"	2.28	0.128	98.3	75-125			
Copper	36.2	0.400	"	45.6	3.10	72.7	75-125			QM-07
Lead	26.3	0.200	"	22.8	3.55	99.9	75-125			
Nickel	35.4	0.400	"	45.6	3.40	70.3	75-125			QM-07
Silver	2.19	0.0200	"	2.28	0.0330	94.8	75-125			
Zinc	45.0	0.400	"	45.6	12.3	71.8	75-125			QM-07
Selenium	4.41	0.260	"	4.56	ND	96.9	75-125			

Matrix Spike Dup (BHD0593-MSD1)		Source: 2403469-01			Prepared: 04/18/24 Analyzed: 04/23/24					
Arsenic	46.5	0.200	mg/kg dry	45.6	0.936	100	75-125	0.136	25	
Barium	96.6	0.400	"	45.6	49.6	103	75-125	3.97	25	
Cadmium	2.42	0.200	"	2.28	0.128	101	75-125	2.32	25	
Copper	50.9	0.400	"	45.6	3.10	105	75-125	33.7	25	QM-07
Lead	27.4	0.200	"	22.8	3.55	105	75-125	4.17	25	
Nickel	37.3	0.400	"	45.6	3.40	74.4	75-125	5.07	25	QM-07
Silver	2.31	0.0200	"	2.28	0.0330	100	75-125	5.40	25	
Zinc	58.6	0.400	"	45.6	12.3	102	75-125	26.4	25	QM-07
Selenium	4.51	0.260	"	4.56	ND	99.1	75-125	2.22	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/08/24 15:41

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 BHD0117 - 3060A Mod

Blank (BHD0117-BLK1)

Prepared: 04/03/24 Analyzed: 04/08/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0117-BS1)

Prepared: 04/03/24 Analyzed: 04/08/24

Chromium, Hexavalent 23.2 0.30 mg/kg wet 25.0 92.6 80-120

Duplicate (BHD0117-DUP1)

Source: 2403410-01

Prepared: 04/03/24 Analyzed: 04/08/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0117-MS1)

Source: 2403410-01

Prepared: 04/03/24 Analyzed: 04/08/24

Chromium, Hexavalent 29.1 0.30 mg/kg dry 29.6 ND 98.2 75-125

Matrix Spike Dup (BHD0117-MSD1)

Source: 2403410-01

Prepared: 04/03/24 Analyzed: 04/08/24

Chromium, Hexavalent 29.1 0.30 mg/kg dry 29.6 ND 98.4 75-125 0.203 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

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

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

Batch BHD0327 - General Preparation

Blank (BHD0327-BLK1)

Prepared: 04/10/24 Analyzed: 04/29/24

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

LCS (BHD0327-BS1)

Prepared: 04/10/24 Analyzed: 04/29/24

Calcium	6.00	0.0500	mg/L wet	5.00	120	70-130
Magnesium	5.18	0.0500	"	5.00	104	70-130
Sodium	5.21	0.0500	"	5.00	104	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

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

Summit Scientific

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

Batch BHD0165 - General Preparation

Duplicate (BHD0165-DUP1)		Source: 2403469-01		Prepared: 04/05/24 Analyzed: 04/06/24	
% Solids	86.1		%	86.4	0.412 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

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

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

Batch BHD0329 - General Preparation

Blank (BHD0329-BLK1)

Prepared: 04/10/24 Analyzed: 04/11/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0329-BS1)

Prepared: 04/10/24 Analyzed: 04/11/24

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.3 95-105

Duplicate (BHD0329-DUP1)

Source: 2403470-05

Prepared: 04/10/24 Analyzed: 04/11/24

Specific Conductance (EC) 0.559 0.0100 mmhos/cm 0.567 1.33 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 - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

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

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

Batch BHD0328 - General Preparation

LCS (BHD0328-BS1)

Prepared: 04/10/24 Analyzed: 04/11/24

pH	9.02	pH Units	9.18	98.3	95-105
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Duplicate (BHD0328-DUP1)

Source: 2403470-05

Prepared: 04/10/24 Analyzed: 04/11/24

pH	8.65	pH Units	8.80	1.72	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/08/24 15:41

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 28, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Raindance Pad
Work Order #2404109

Enclosed are the results of analyses for samples received by Summit Scientific on 04/05/24 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 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 - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-28-N-2	2404109-01	Soil	04/05/24 00:00	04/05/24 16:30
FS-48 1FT	2404109-02	Soil	04/05/24 00:00	04/05/24 16:30
FS-49 2FT	2404109-03	Soil	04/05/24 00:00	04/05/24 16:30
FS-50 2FT	2404109-04	Soil	04/05/24 00:00	04/05/24 16:30
SS-46	2404109-05	Soil	04/05/24 00:00	04/05/24 16:30
SS-47	2404109-06	Soil	04/05/24 00:00	04/05/24 16:30
SS-48	2404109-07	Soil	04/05/24 00:00	04/05/24 16:30
SS-49	2404109-08	Soil	04/05/24 00:00	04/05/24 16:30
SS-50	2404109-09	Soil	04/05/24 00:00	04/05/24 16:30
FS-51 0.5FT	2404109-10	Soil	04/05/24 00:00	04/05/24 16:30

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.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2404109	

Send Data To:		Send Invoice To:	
Client: Fremont	Project Manager: Paul Henahan	Company: DDC	
Address:	E-Mail:	Project Name/Location:	
City/State/Zip:		AFE#:	
Phone:	Project Name: RAINDANCE P&D	PO/Billing Codes:	
Sampler Name: HENELLAN	Project Number:	Contact:	

		Preservative				Matrix				Analysis Requested				Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full 915-1		
1	SS-28-N-2	4/5/24		2			✓			✓			✓		
2	FS-48 1 FT														
3	FS-49 2 FT														
4	FS-50 2 FT														
5	SS-46														
6	SS-47														
7	SS-48														
8	SS-49														
9	SS-50														
10	FS-51 0.5 FT														
11															
12															
13															
14															
15															

Relinquished by: <i>[Signature]</i>	Date/Time: 4/5/24 1330	Received by: <i>[Signature]</i>	Date/Time: 4/5/24 1630	TAT Business Days	Field DO	Notes:
Relinquished by: <i>[Signature]</i>	Date/Time: 4/5/24 1630	Received by: <i>[Signature]</i>	Date/Time: 4/5/24 1630	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 9.1	Corrected Temperature: 9	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2404109Client: FremontClient Project ID: Raindance PadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

9.1

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MSCE
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
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 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 - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-28-N-2
2404109-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0200	04/05/24	04/05/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0203	04/05/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.95	55.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-28-N-2
2404109-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0206	04/08/24	04/10/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0197	59.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0363	04/11/24	05/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-28-N-2
2404109-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.74	0.200	mg/kg dry	1	BHD0655	04/19/24	04/24/24	EPA 6020B
Barium	56.9	0.400	"	"	"	"	"	"
Cadmium	0.214	0.200	"	"	"	"	"	"
Copper	12.9	0.400	"	"	"	"	"	"
Lead	12.5	0.200	"	"	"	"	"	"
Nickel	14.1	0.400	"	"	"	"	"	"
Silver	0.0730	0.0200	"	"	"	"	"	"
Zinc	56.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	107	0.0500	mg/L dry	1	BHD0421	04/12/24	05/01/24	EPA 6020B	
Magnesium	36.6	0.0500	"	"	"	"	"	"	
Sodium	18.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.392	0.00100	units	1	BHE0055	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-28-N-2
2404109-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.4	%	1	BHD0287	04/10/24	04/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.830	0.0100	mmhos/cm	1	BHD0422	04/12/24	04/22/24	EPA 120.1	I-02

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHD0423	04/12/24	04/22/24	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:
05/28/24 09:19

FS-48 1FT
2404109-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0200	04/05/24	04/05/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0203	04/05/24	04/06/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.95	63.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

FS-48 1FT
2404109-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0206	04/08/24	04/10/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0363	04/11/24	05/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

FS-48 1FT
2404109-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.35	0.200	mg/kg dry	1	BHD0655	04/19/24	04/24/24	EPA 6020B
Barium	35.7	0.400	"	"	"	"	"	"
Cadmium	0.221	0.200	"	"	"	"	"	"
Copper	12.6	0.400	"	"	"	"	"	"
Lead	13.0	0.200	"	"	"	"	"	"
Nickel	13.8	0.400	"	"	"	"	"	"
Silver	0.0873	0.0200	"	"	"	"	"	"
Zinc	58.7	0.400	"	"	"	"	"	"
Selenium	0.278	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	216	0.0500	mg/L dry	1	BHD0421	04/12/24	05/01/24	EPA 6020B	
Magnesium	75.6	0.0500	"	"	"	"	"	"	
Sodium	98.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.47	0.00100	units	1	BHE0055	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

FS-48 1FT
2404109-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.0	%	1	BHD0287	04/10/24	04/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.84	0.0100	mmhos/cm	1	BHD0422	04/12/24	04/22/24	EPA 120.1	I-02

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHD0423	04/12/24	04/22/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 09:19

FS-49 2FT
2404109-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0200	04/05/24	04/05/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0402	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0423	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0430	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0203	04/05/24	04/06/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.92	55.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

FS-49 2FT
2404109-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0206	04/08/24	04/10/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0363	04/11/24	05/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 09:19

FS-49 2FT
2404109-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.51	0.200	mg/kg dry	1	BHD0655	04/19/24	04/24/24	EPA 6020B
Barium	50.4	0.400	"	"	"	"	"	"
Cadmium	0.220	0.200	"	"	"	"	"	"
Copper	13.0	0.400	"	"	"	"	"	"
Lead	12.7	0.200	"	"	"	"	"	"
Nickel	13.9	0.400	"	"	"	"	"	"
Silver	0.0805	0.0200	"	"	"	"	"	"
Zinc	58.0	0.400	"	"	"	"	"	"
Selenium	0.300	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	152	0.0500	mg/L dry	1	BHD0421	04/12/24	05/01/24	EPA 6020B	
Magnesium	101	0.0500	"	"	"	"	"	"	
Sodium	82.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.27	0.00100	units	1	BHE0055	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/05/24 00:00**

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

Reported:
05/28/24 09:19

FS-49 2FT
2404109-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.3	%	1	BHD0287	04/10/24	04/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.66	0.0100	mmhos/cm	1	BHD0422	04/12/24	04/22/24	EPA 120.1	I-02

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BHD0423	04/12/24	04/22/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

FS-50 2FT
2404109-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0200	04/05/24	04/06/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0203	04/05/24	04/06/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.91	55.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

FS-50 2FT
2404109-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0206	04/08/24	04/10/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0152	45.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0363	04/11/24	05/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 09:19

FS-50 2FT
2404109-04 (Soil)

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Total Metals by EPA 6020B

Arsenic	7.14	0.200	mg/kg dry	1	BHD0655	04/19/24	04/24/24	EPA 6020B
Barium	36.3	0.400	"	"	"	"	"	"
Cadmium	0.218	0.200	"	"	"	"	"	"
Copper	12.3	0.400	"	"	"	"	"	"
Lead	12.5	0.200	"	"	"	"	"	"
Nickel	13.2	0.400	"	"	"	"	"	"
Silver	0.0772	0.0200	"	"	"	"	"	"
Zinc	56.1	0.400	"	"	"	"	"	"
Selenium	0.268	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	154	0.0500	mg/L dry	1	BHD0421	04/12/24	05/01/24	EPA 6020B	
Magnesium	75.9	0.0500	"	"	"	"	"	"	
Sodium	50.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.834	0.00100	units	1	BHE0055	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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:
05/28/24 09:19

FS-50 2FT
2404109-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.7	%	1	BHD0287	04/10/24	04/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.39	0.0100	mmhos/cm	1	BHD0422	04/12/24	04/22/24	EPA 120.1	I-02

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BHD0423	04/12/24	04/22/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-46
2404109-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0200	04/05/24	04/06/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0427	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0203	04/05/24	04/06/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.86	62.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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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:
05/28/24 09:19

SS-46
2404109-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0206	04/08/24	04/10/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0231	69.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0305	91.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0363	04/11/24	05/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad
Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-46
2404109-05 (Soil)

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Total Metals by EPA 6020B

Arsenic	6.04	0.200	mg/kg dry	1	BHD0655	04/19/24	04/24/24	EPA 6020B
Barium	46.0	0.400	"	"	"	"	"	"
Cadmium	0.212	0.200	"	"	"	"	"	"
Copper	10.8	0.400	"	"	"	"	"	"
Lead	11.0	0.200	"	"	"	"	"	"
Nickel	13.4	0.400	"	"	"	"	"	"
Silver	0.0726	0.0200	"	"	"	"	"	"
Zinc	51.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	142	0.0500	mg/L dry	1	BHD0421	04/12/24	05/01/24	EPA 6020B	
Magnesium	84.8	0.0500	"	"	"	"	"	"	
Sodium	48.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.794	0.00100	units	1	BHE0055	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-46
2404109-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.0	%	1	BHD0287	04/10/24	04/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.24	0.0100	mmhos/cm	1	BHD0422	04/12/24	04/22/24	EPA 120.1	I-02

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHD0423	04/12/24	04/22/24	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:
05/28/24 09:19

SS-47
2404109-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0200	04/05/24	04/06/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0425	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0430	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0203	04/05/24	04/06/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.82	54.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-47
2404109-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0206	04/08/24	04/10/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0135	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	60.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0363	04/11/24	05/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-47
2404109-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.22	0.181	mg/kg dry	1	BHD0655	04/19/24	04/24/24	EPA 6020B
Barium	78.4	0.362	"	"	"	"	"	"
Cadmium	0.248	0.181	"	"	"	"	"	"
Copper	13.6	0.362	"	"	"	"	"	"
Lead	12.1	0.181	"	"	"	"	"	"
Nickel	14.9	0.362	"	"	"	"	"	"
Silver	0.0774	0.0181	"	"	"	"	"	"
Zinc	56.2	0.362	"	"	"	"	"	"
Selenium	ND	0.236	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	121	0.0500	mg/L dry	1	BHD0421	04/12/24	05/01/24	EPA 6020B	
Magnesium	83.2	0.0500	"	"	"	"	"	"	
Sodium	96.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.65	0.00100	units	1	BHE0055	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-47
2404109-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.3	%	1	BHD0287	04/10/24	04/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.53	0.0100	mmhos/cm	1	BHD0422	04/12/24	04/22/24	EPA 120.1	I-02

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BHD0423	04/12/24	04/22/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-48
2404109-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0200	04/05/24	04/06/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0427	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0203	04/05/24	04/06/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.82	62.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-48
2404109-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0206	04/08/24	04/10/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0342	04/11/24	05/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

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SS-48
2404109-07 (Soil)

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Total Metals by EPA 6020B

Arsenic	6.22	0.200	mg/kg dry	1	BHD0655	04/19/24	04/24/24	EPA 6020B
Barium	75.1	0.400	"	"	"	"	"	"
Cadmium	0.250	0.200	"	"	"	"	"	"
Copper	12.9	0.400	"	"	"	"	"	"
Lead	11.9	0.200	"	"	"	"	"	"
Nickel	14.3	0.400	"	"	"	"	"	"
Silver	0.0715	0.0200	"	"	"	"	"	"
Zinc	54.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.1	0.0500	mg/L dry	1	BHD0421	04/12/24	05/01/24	EPA 6020B	
Magnesium	36.3	0.0500	"	"	"	"	"	"	
Sodium	78.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.83	0.00100	units	1	BHE0055	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/05/24 00:00**

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

Reported:
05/28/24 09:19

SS-48
2404109-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.1	%	1	BHD0287	04/10/24	04/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.04	0.0100	mmhos/cm	1	BHD0422	04/12/24	04/22/24	EPA 120.1	I-02

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHD0423	04/12/24	04/22/24	EPA 9045D	

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

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05/28/24 09:19

SS-49
2404109-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0200	04/05/24	04/06/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0373	93.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0203	04/05/24	04/06/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.83	62.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-49
2404109-08 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0206	04/08/24	04/10/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	63.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0342	04/11/24	05/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
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SS-49
2404109-08 (Soil)

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Total Metals by EPA 6020B

Arsenic	6.22	0.200	mg/kg dry	1	BHD0655	04/19/24	04/24/24	EPA 6020B
Barium	88.8	0.400	"	"	"	"	"	"
Cadmium	0.262	0.200	"	"	"	"	"	"
Copper	14.1	0.400	"	"	"	"	"	"
Lead	12.3	0.200	"	"	"	"	"	"
Nickel	15.5	0.400	"	"	"	"	"	"
Silver	0.0753	0.0200	"	"	"	"	"	"
Zinc	57.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.8	0.0500	mg/L dry	1	BHD0421	04/12/24	05/01/24	EPA 6020B	
Magnesium	32.5	0.0500	"	"	"	"	"	"	
Sodium	36.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.920	0.00100	units	1	BHE0055	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-49
2404109-08 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.2	%	1	BHD0287	04/10/24	04/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.708	0.0100	mmhos/cm	1	BHD0422	04/12/24	04/22/24	EPA 120.1	I-02

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BHD0423	04/12/24	04/22/24	EPA 9045D	

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-50
2404109-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0200	04/05/24	04/06/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0376	93.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0423	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0203	04/05/24	04/06/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.56	60.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-50
2404109-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0206	04/08/24	04/10/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0158	47.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0342	04/11/24	05/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

SS-50
2404109-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.20	0.200	mg/kg dry	1	BHD0655	04/19/24	04/25/24	EPA 6020B
Barium	69.2	0.400	"	"	"	"	"	"
Cadmium	0.237	0.200	"	"	"	"	"	"
Copper	12.3	0.400	"	"	"	"	"	"
Lead	12.0	0.200	"	"	"	"	"	"
Nickel	13.8	0.400	"	"	"	"	"	"
Silver	0.0712	0.0200	"	"	"	"	"	"
Zinc	53.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.1	0.0500	mg/L dry	1	BHD0421	04/12/24	05/01/24	EPA 6020B	
Magnesium	23.9	0.0500	"	"	"	"	"	"	
Sodium	55.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.62	0.00100	units	1	BHE0055	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/28/24 09:19

SS-50
2404109-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.7	%	1	BHD0287	04/10/24	04/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.692	0.0100	mmhos/cm	1	BHD0422	04/12/24	04/22/24	EPA 120.1	I-02

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.62		pH Units	1	BHD0423	04/12/24	04/22/24	EPA 9045D	

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PO Box 1289
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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

FS-51 0.5FT
2404109-10 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHD0200	04/05/24	04/06/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0377	94.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0203	04/05/24	04/06/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.16	57.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

FS-51 0.5FT
2404109-10 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0206	04/08/24	04/10/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0342	04/11/24	05/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

FS-51 0.5FT
2404109-10 (Soil)

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Total Metals by EPA 6020B

Arsenic	5.96	0.200	mg/kg dry	1	BHD0655	04/19/24	04/25/24	EPA 6020B
Barium	34.0	0.400	"	"	"	"	"	"
Cadmium	0.215	0.200	"	"	"	"	"	"
Copper	9.96	0.400	"	"	"	"	"	"
Lead	10.8	0.200	"	"	"	"	"	"
Nickel	11.4	0.400	"	"	"	"	"	"
Silver	0.0630	0.0200	"	"	"	"	"	"
Zinc	46.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.5	0.0500	mg/L dry	1	BHD0421	04/12/24	05/01/24	EPA 6020B	
Magnesium	7.24	0.0500	"	"	"	"	"	"	
Sodium	7.53	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.304	0.00100	units	1	BHE0055	05/02/24	05/02/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/05/24 00:00**

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

Reported:
05/28/24 09:19

FS-51 0.5FT
2404109-10 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.6	%	1	BHD0287	04/10/24	04/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.252	0.0100	mmhos/cm	1	BHD0422	04/12/24	04/22/24	EPA 120.1	I-02

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

Date Sampled: **04/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BHD0423	04/12/24	04/22/24	EPA 9045D	

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Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHD0200 - EPA 5030 Soil MS

Blank (BHD0200-BLK1)

Prepared & Analyzed: 04/05/24

Benzene	ND	0.0020	mg/kg
Toluene	ND	0.0050	"
Ethylbenzene	ND	0.0050	"
Xylenes (total)	ND	0.010	"
1,2,4-Trimethylbenzene	ND	0.0050	"
1,3,5-Trimethylbenzene	ND	0.0050	"
Naphthalene	ND	0.0038	"
Gasoline Range Hydrocarbons	ND	0.50	"

Surrogate: 1,2-Dichloroethane-d4	0.0376	"	0.0400	94.0	50-150
Surrogate: Toluene-d8	0.0412	"	0.0400	103	50-150
Surrogate: 4-Bromofluorobenzene	0.0421	"	0.0400	105	50-150

LCS (BHD0200-BS1)

Prepared & Analyzed: 04/05/24

Benzene	0.104	0.0020	mg/kg	0.100	104	70-130
Toluene	0.128	0.0050	"	0.100	128	70-130
Ethylbenzene	0.115	0.0050	"	0.100	115	70-130
m,p-Xylene	0.230	0.010	"	0.200	115	70-130
o-Xylene	0.110	0.0050	"	0.100	110	70-130
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100	106	70-130
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	108	70-130
Naphthalene	0.0989	0.0038	"	0.100	98.9	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0379	"	0.0400	94.8	50-150
Surrogate: Toluene-d8	0.0424	"	0.0400	106	50-150
Surrogate: 4-Bromofluorobenzene	0.0420	"	0.0400	105	50-150

Matrix Spike (BHD0200-MS1)

Source: 2404097-01

Prepared & Analyzed: 04/05/24

Benzene	0.126	0.0020	mg/kg	0.100	ND	126	70-130
Toluene	0.120	0.0050	"	0.100	ND	120	70-130
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130
m,p-Xylene	0.207	0.010	"	0.200	ND	104	70-130
o-Xylene	0.0988	0.0050	"	0.100	ND	98.8	70-130
1,2,4-Trimethylbenzene	0.0934	0.0050	"	0.100	ND	93.4	70-130
1,3,5-Trimethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130
Naphthalene	0.0929	0.0038	"	0.100	ND	92.9	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0380	"	0.0400	95.0	50-150
Surrogate: Toluene-d8	0.0420	"	0.0400	105	50-150
Surrogate: 4-Bromofluorobenzene	0.0399	"	0.0400	99.8	50-150

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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHD0200 - EPA 5030 Soil MS

Matrix Spike Dup (BHD0200-MSD1)		Source: 2404097-01			Prepared & Analyzed: 04/05/24					
Benzene	0.127	0.0020	mg/kg	0.100	ND	127	70-130	0.902	30	
Toluene	0.113	0.0050	"	0.100	ND	113	70-130	5.65	30	
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	0.0286	30	
m,p-Xylene	0.216	0.010	"	0.200	ND	108	70-130	3.94	30	
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130	1.89	30	
1,2,4-Trimethylbenzene	0.0941	0.0050	"	0.100	ND	94.1	70-130	0.736	30	
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	9.06	30	
Naphthalene	0.0679	0.0038	"	0.100	ND	67.9	70-130	31.2	30	QM-07
Surrogate: 1,2-Dichloroethane-d4		0.0405	"	0.0400		101	50-150			
Surrogate: Toluene-d8		0.0420	"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene		0.0415	"	0.0400		104	50-150			

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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHD0203 - EPA 3550A

Blank (BHD0203-BLK1)

Prepared & Analyzed: 04/05/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.6		"	12.5	101	30-150				

LCS (BHD0203-BS1)

Prepared & Analyzed: 04/05/24

C10-C28 (DRO)	526	50	mg/kg	500	105	70-130				
Surrogate: o-Terphenyl	13.2		"	12.5	106	30-150				

Matrix Spike (BHD0203-MS1)

Source: 2404097-01

Prepared & Analyzed: 04/05/24

C10-C28 (DRO)	422	50	mg/kg	500	24.2	79.5	70-130			
Surrogate: o-Terphenyl	11.2		"	12.5	89.8	30-150				

Matrix Spike Dup (BHD0203-MSD1)

Source: 2404097-01

Prepared & Analyzed: 04/05/24

C10-C28 (DRO)	427	50	mg/kg	500	24.2	80.5	70-130	1.18	20	
Surrogate: o-Terphenyl	11.2		"	12.5	89.2	30-150				

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

Reported:
05/28/24 09:19

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0206 - EPA 5030 Soil MS

Blank (BHD0206-BLK1)

Prepared: 04/08/24 Analyzed: 04/09/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0286		"	0.0333		85.8	40-150			
Surrogate: Fluoranthene-d10	0.0451		"	0.0333		135	40-150			

LCS (BHD0206-BS1)

Prepared: 04/08/24 Analyzed: 04/09/24

Acenaphthene	0.0356	0.00500	mg/kg	0.0333	107	31-137
Anthracene	0.0400	0.00500	"	0.0333	120	30-120
Benzo (a) anthracene	0.0337	0.00500	"	0.0333	101	30-120
Benzo (a) pyrene	0.0256	0.00500	"	0.0333	76.9	30-120
Benzo (b) fluoranthene	0.0269	0.00500	"	0.0333	80.8	30-120
Benzo (k) fluoranthene	0.0349	0.00500	"	0.0333	105	30-120
Chrysene	0.0337	0.00500	"	0.0333	101	30-120
Dibenz (a,h) anthracene	0.0126	0.00500	"	0.0333	37.8	30-120
Fluoranthene	0.0351	0.00500	"	0.0333	105	30-120
Fluorene	0.0365	0.00500	"	0.0333	109	30-120
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	53.2	30-120
Pyrene	0.0342	0.00500	"	0.0333	103	35-142
1-Methylnaphthalene	0.0331	0.00500	"	0.0333	99.2	35-142
2-Methylnaphthalene	0.0303	0.00500	"	0.0333	90.8	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0309		"	0.0333	92.7	40-150
Surrogate: Fluoranthene-d10	0.0410		"	0.0333	123	40-150

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Project: PDC - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHD0206 - EPA 5030 Soil MS

Matrix Spike (BHD0206-MS1)

Source: 2404024-04

Prepared: 04/08/24 Analyzed: 04/09/24

Acenaphthene	0.0251	0.00500	mg/kg	0.0333	ND	75.2	31-137			
Anthracene	0.0217	0.00500	"	0.0333	ND	65.2	30-120			
Benzo (a) anthracene	0.0258	0.00500	"	0.0333	ND	77.5	30-120			
Benzo (a) pyrene	0.0185	0.00500	"	0.0333	ND	55.4	30-120			
Benzo (b) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.2	30-120			
Benzo (k) fluoranthene	0.0240	0.00500	"	0.0333	ND	72.0	30-120			
Chrysene	0.0266	0.00500	"	0.0333	ND	79.8	30-120			
Dibenz (a,h) anthracene	0.0123	0.00500	"	0.0333	ND	36.9	30-120			
Fluoranthene	0.0264	0.00500	"	0.0333	ND	79.1	30-120			
Fluorene	0.0281	0.00500	"	0.0333	ND	84.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0122	0.00500	"	0.0333	ND	36.7	30-120			
Pyrene	0.0417	0.00500	"	0.0333	ND	125	35-142			
1-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.6	15-130			
2-Methylnaphthalene	0.0232	0.00500	"	0.0333	ND	69.5	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0225		"	0.0333		67.6	40-150			
Surrogate: Fluoranthene-d10	0.0268		"	0.0333		80.5	40-150			

Matrix Spike Dup (BHD0206-MSD1)

Source: 2404024-04

Prepared: 04/08/24 Analyzed: 04/09/24

Acenaphthene	0.0195	0.00500	mg/kg	0.0333	ND	58.6	31-137	24.9	30	
Anthracene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	36.7	30	QR-02
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	ND	62.2	30-120	21.8	30	
Benzo (a) pyrene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	22.6	30	
Benzo (b) fluoranthene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	25.2	30	
Benzo (k) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.3	30-120	26.3	30	
Chrysene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	22.0	30	
Dibenz (a,h) anthracene	0.0116	0.00500	"	0.0333	ND	34.7	30-120	6.33	30	
Fluoranthene	0.0159	0.00500	"	0.0333	ND	47.8	30-120	49.3	30	QR-02
Fluorene	0.0198	0.00500	"	0.0333	ND	59.5	30-120	34.5	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0106	0.00500	"	0.0333	ND	31.7	30-120	14.5	30	
Pyrene	0.0346	0.00500	"	0.0333	ND	104	35-142	18.7	30	
1-Methylnaphthalene	0.0165	0.00500	"	0.0333	ND	49.6	15-130	30.8	50	
2-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.7	15-130	31.4	50	
Surrogate: 2-Methylnaphthalene-d10	0.0158		"	0.0333		47.4	40-150			
Surrogate: Fluoranthene-d10	0.0169		"	0.0333		50.8	40-150			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 09:19

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 BHD0342 - EPA 3050B

Blank (BHD0342-BLK1)

Prepared: 04/11/24 Analyzed: 05/23/24

Boron ND 2.00 mg/L

LCS (BHD0342-BS1)

Prepared: 04/11/24 Analyzed: 05/23/24

Boron 4.91 2.00 mg/L 5.00 98.2 80-120

Duplicate (BHD0342-DUP1)

Source: 2404009-01

Prepared: 04/11/24 Analyzed: 05/23/24

Boron 0.308 2.00 mg/L 0.328 6.18 20

Matrix Spike (BHD0342-MS1)

Source: 2404009-01

Prepared: 04/11/24 Analyzed: 05/23/24

Boron 5.52 2.00 mg/L 5.00 0.328 104 75-125

Matrix Spike Dup (BHD0342-MSD1)

Source: 2404009-01

Prepared: 04/11/24 Analyzed: 05/23/24

Boron 5.65 2.00 mg/L 5.00 0.328 106 75-125 2.24 25

Batch BHD0363 - EPA 3050B

Blank (BHD0363-BLK1)

Prepared: 04/11/24 Analyzed: 05/23/24

Boron ND 2.00 mg/L

LCS (BHD0363-BS1)

Prepared: 04/11/24 Analyzed: 05/23/24

Boron 4.65 2.00 mg/L 5.00 93.0 80-120

Duplicate (BHD0363-DUP1)

Source: 2402519-02

Prepared: 04/11/24 Analyzed: 05/23/24

Boron 0.0716 2.00 mg/L 0.115 46.1 20 QR-02

Matrix Spike (BHD0363-MS1)

Source: 2402519-02

Prepared: 04/11/24 Analyzed: 05/23/24

Boron 4.88 2.00 mg/L 5.00 0.115 95.4 75-125

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 - Rairdance Pad	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	05/28/24 09:19

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

Summit Scientific

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

Batch BHD0363 - EPA 3050B

Matrix Spike Dup (BHD0363-MSD1)	Source: 2402519-02			Prepared: 04/11/24 Analyzed: 05/23/24						
Boron	5.11	2.00	mg/L	5.00	0.115	100	75-125	4.67	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.

Atalio Bessin



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/28/24 09:19

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 BHD0655 - EPA 3050B

Blank (BHD0655-BLK1)

Prepared: 04/19/24 Analyzed: 04/24/24

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 (BHD0655-BS1)

Prepared: 04/19/24 Analyzed: 04/24/24

Arsenic	39.0	0.200	mg/kg wet	40.0	97.5	80-120
Barium	39.4	0.400	"	40.0	98.4	80-120
Cadmium	1.91	0.200	"	2.00	95.7	80-120
Copper	39.4	0.400	"	40.0	98.5	80-120
Lead	19.0	0.200	"	20.0	95.2	80-120
Nickel	39.0	0.400	"	40.0	97.4	80-120
Silver	1.90	0.0200	"	2.00	95.1	80-120
Zinc	38.7	0.400	"	40.0	96.6	80-120
Selenium	4.03	0.260	"	4.00	101	80-120

Duplicate (BHD0655-DUP1)

Source: 2403492-01

Prepared: 04/19/24 Analyzed: 04/24/24

Arsenic	2.96	0.200	mg/kg dry	2.91	1.76	20
Barium	94.7	0.400	"	95.9	1.27	20
Cadmium	0.225	0.200	"	0.218	2.84	20
Copper	7.89	0.400	"	7.68	2.81	20
Lead	7.08	0.200	"	6.87	3.01	20
Nickel	9.77	0.400	"	9.45	3.31	20
Silver	0.0297	0.0200	"	0.0309	4.04	20
Zinc	37.1	0.400	"	36.1	2.95	20
Selenium	ND	0.260	"	ND		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 - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

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 BHD0655 - EPA 3050B

Matrix Spike (BHD0655-MS1)

Source: 2403492-01

Prepared: 04/19/24 Analyzed: 04/24/24

Arsenic	43.7	0.200	mg/kg dry	43.0	2.91	94.7	75-125
Barium	138	0.400	"	43.0	95.9	97.5	75-125
Cadmium	2.36	0.200	"	2.15	0.218	99.4	75-125
Copper	49.6	0.400	"	43.0	7.68	97.4	75-125
Lead	27.4	0.200	"	21.5	6.87	95.6	75-125
Nickel	51.3	0.400	"	43.0	9.45	97.4	75-125
Silver	2.11	0.0200	"	2.15	0.0309	96.7	75-125
Zinc	79.1	0.400	"	43.0	36.1	99.9	75-125
Selenium	3.33	0.260	"	4.30	ND	77.4	75-125

Matrix Spike Dup (BHD0655-MSD1)

Source: 2403492-01

Prepared: 04/19/24 Analyzed: 04/24/24

Arsenic	43.7	0.200	mg/kg dry	43.0	2.91	94.7	75-125	0.0217	25
Barium	136	0.400	"	43.0	95.9	93.7	75-125	1.19	25
Cadmium	2.37	0.200	"	2.15	0.218	99.8	75-125	0.419	25
Copper	49.2	0.400	"	43.0	7.68	96.5	75-125	0.809	25
Lead	27.6	0.200	"	21.5	6.87	96.2	75-125	0.490	25
Nickel	51.0	0.400	"	43.0	9.45	96.6	75-125	0.634	25
Silver	2.09	0.0200	"	2.15	0.0309	95.6	75-125	1.13	25
Zinc	78.4	0.400	"	43.0	36.1	98.5	75-125	0.786	25
Selenium	3.40	0.260	"	4.30	ND	79.1	75-125	2.08	25

Post Spike (BHD0655-PS1)

Source: 2403492-01

Prepared: 04/19/24 Analyzed: 04/25/24

Arsenic	105		ug/l	100	6.55	98.1	75-125
Barium	318		"	100	216	102	75-125
Cadmium	5.52		"	5.00	0.492	101	75-125
Copper	115		"	100	17.3	97.7	75-125
Lead	64.6		"	50.0	15.5	98.3	75-125
Nickel	120		"	100	21.3	98.4	75-125
Silver	5.07		"	5.00	0.0695	100	75-125
Zinc	181		"	100	81.2	100	75-125
Selenium	8.91		"	10.0	0.0902	88.2	75-125

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 - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

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 BHD0429 - 3060A Mod

Blank (BHD0429-BLK1)

Prepared & Analyzed: 04/15/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0429-BS1)

Prepared & Analyzed: 04/15/24

Chromium, Hexavalent 25.3 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHD0429-DUP1)

Source: 2404020-01

Prepared & Analyzed: 04/15/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0429-MS1)

Source: 2404020-01

Prepared & Analyzed: 04/15/24

Chromium, Hexavalent 27.7 0.30 mg/kg dry 29.3 ND 94.8 75-125

Matrix Spike Dup (BHD0429-MSD1)

Source: 2404020-01

Prepared & Analyzed: 04/15/24

Chromium, Hexavalent 27.5 0.30 mg/kg dry 29.3 ND 94.0 75-125 0.847 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 - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

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

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

Batch BHD0421 - General Preparation

Blank (BHD0421-BLK1)

Prepared: 04/12/24 Analyzed: 05/01/24

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

LCS (BHD0421-BS1)

Prepared: 04/12/24 Analyzed: 05/01/24

Calcium	5.85	0.0500	mg/L wet	5.00	117	70-130
Magnesium	5.21	0.0500	"	5.00	104	70-130
Sodium	5.24	0.0500	"	5.00	105	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
PO Box 1289
Wellington CO, 80549

Project: PDC - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

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

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

Batch BHD0287 - General Preparation

Duplicate (BHD0287-DUP1)		Source: 2403485-01			Prepared: 04/10/24 Analyzed: 04/11/24						
% Solids	81.2		%		81.2			0.0144		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 - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

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 BHD0422 - General Preparation

Blank (BHD0422-BLK1)

Prepared: 04/12/24 Analyzed: 04/22/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0422-BS1)

Prepared: 04/12/24 Analyzed: 04/22/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHD0422-DUP1)

Source: 2404097-01

Prepared: 04/12/24 Analyzed: 04/22/24

Specific Conductance (EC) 0.838 0.0100 mmhos/cm 0.847 1.03 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 - Rairdance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

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 BHD0423 - General Preparation

LCS (BHD0423-BS1)

Prepared: 04/12/24 Analyzed: 04/22/24

pH	9.22	pH Units	9.18	100	95-105
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Duplicate (BHD0423-DUP1)

Source: 2404097-01

Prepared: 04/12/24 Analyzed: 04/22/24

pH	9.14	pH Units	9.24	1.09	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 - Raindance Pad

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/28/24 09:19

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-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
I-02	This sample was analyzed outside of the recommended holding time.
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



April 17, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Chevron - Raindance Pad

Project Number - [none]

Attached are your analytical results for Chevron - Raindance Pad received by Origins Laboratory, Inc. April 09, 2024. This project is associated with Origins project number Y404272-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-51	Y404272-01	Soil	April 9, 2024 0:00	04/09/2024 17:00
SS-52	Y404272-02	Soil	April 9, 2024 0:00	04/09/2024 17:00
SS-53	Y404272-03	Soil	April 9, 2024 0:00	04/09/2024 17:00
SS-54	Y404272-04	Soil	April 9, 2024 0:00	04/09/2024 17:00
FS-51	Y404272-05	Soil	April 9, 2024 0:00	04/09/2024 17:00
FS-52	Y404272-06	Soil	April 9, 2024 0:00	04/09/2024 17:00
SS-22-N-2	Y404272-07	Soil	April 9, 2024 0:00	04/09/2024 17:00

Origins Laboratory, Inc.



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
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

ORIGINS

LABORATORY LLC

Client:

CHEVRON / FREMONT

Address:

Project Manager:

HENEHAN

Project Name:

RAINDANCE PAD

Project Number:

Collected By:

HENEHAN

Invoice/Billing Info:

PDC / CHEVRON

Key:

W= Water

GW=Groundwater

SW=Surface Water

WW=Waste Water

L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis								Comments			
						1	2	3	4	5	6	7	8		9	10	
SS-51	4/9/24	1700	2														
SS-52																	
SS-53																	
SS-54																	
ES-51																	
ES-52																	
SS-22-N-2																	

Relinquished By: PAH Date: 4/9/24 Time: 1700

Received By: PAH Date: 4/9/24 Time: 1700

Received On Ice? ☐ Yes ☐ No

Standard

48 Hr ☐ 72 Hr ☐

SAME DAY ☒ 24 Hr ☐

For Lab Sample Receiving Only:

Temp Received-

Received On Ice? ☐ Yes ☐ No

Origins Laboratory, Inc.

J. Bynon

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
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y404272

Client: Fremont

Client Project ID: Raindance Pad

Checklist Completed by: EAD/SA

Shipped Via: HO

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/9/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid Water Other: (Describe)

Cooler Number/Temperature: 1/11 °C / °C / °C / °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		SD
Is there ice present (document if blue ice is used)		<input checked="" type="checkbox"/>		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any): <u>No sample times, matrix, pres on COC</u>				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) LOA

Date/Time Reviewed 4/9/12

Origins Laboratory, Inc.

J. Bynon

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
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

SS-51

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404272-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.290	0.101	mg/L	1	B4D1009	04/10/2024	04/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0935	04/09/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	107 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0936	04/09/2024	04/09/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Rairdance Pad

SS-51

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.1 %	70-130	B4D0936	04/09/2024	04/09/2024
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	22.9	0.499	meq/L	10	[CALC]	04/10/2024	04/11/2024
Magnesium	18.4	0.823	"	"	"	"	"
Sodium	5.21	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-51

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	117 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.10	pH Units	1	B4D1017	04/10/2024	04/11/2024
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SAR by 20B Saturated Paste

SAR	1.15	0.0100	SAR	1	B4D1004	04/10/2024	04/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.53	0.00500	mmhos/cm	1	B4D1017	04/10/2024	04/11/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-51

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	6.89	0.255	mg/kg	10	B4D0934	04/09/2024	04/11/2024
Barium	71.0	8.78	"	"	"	"	"
Cadmium	0.101	0.0878	"	"	"	"	"
Copper	12.6	8.78	"	"	"	"	"
Lead	12.2	0.878	"	"	"	"	"
Nickel	15.7	0.878	"	"	"	"	"
Selenium	0.333	0.228	"	"	"	"	"
Silver	0.0878	0.0878	"	"	"	"	"
Zinc	59.5	32.5	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.177	0.442	mg/kg dry	1	2596458	04/12/2024	04/16/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-52

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.347	0.100	mg/L	1	B4D1009	04/10/2024	04/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0935	04/09/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	106 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0936	04/09/2024	04/09/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-52

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.1 %	70-130	B4D0936	04/09/2024	04/09/2024
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	26.2	0.499	meq/L	10	[CALC]	04/10/2024	04/11/2024
Magnesium	6.41	0.823	"	"	"	"	"
Sodium	3.02	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

SS-52

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404272-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	92.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	120 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.98	pH Units	1	B4D1017	04/10/2024	04/11/2024
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SAR by 20B Saturated Paste

SAR	0.748	0.0100	SAR	1	B4D1004	04/10/2024	04/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.38	0.00500	mmhos/cm	1	B4D1017	04/10/2024	04/11/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-52

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	6.40	0.258	mg/kg	10	B4D0934	04/09/2024	04/11/2024
Barium	38.3	8.89	"	"	"	"	"
Cadmium	0.0960	0.0889	"	"	"	"	"
Copper	9.62	8.89	"	"	"	"	"
Lead	11.2	0.889	"	"	"	"	"
Nickel	13.7	0.889	"	"	"	"	"
Selenium	0.277	0.231	"	"	"	"	"
Silver	0.101	0.0889	"	"	"	"	"
Zinc	54.8	32.9	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.120	0.301	mg/kg dry	1	2596458	04/12/2024	04/16/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-53

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.343	0.101	mg/L	1	B4D1009	04/10/2024	04/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0935	04/09/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	106 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0936	04/09/2024	04/09/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-53

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.6 %	70-130	B4D0936	04/09/2024	04/09/2024
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	15.5	0.499	meq/L	10	[CALC]	04/10/2024	04/11/2024
Magnesium	9.37	0.823	"	"	"	"	"
Sodium	3.63	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

SS-53

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404272-03 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	120 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.11	pH Units	1	B4D1017	04/10/2024	04/11/2024
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SAR by 20B Saturated Paste

SAR	1.03	0.0100	SAR	1	B4D1004	04/10/2024	04/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.88	0.00500	mmhos/cm	1	B4D1017	04/10/2024	04/11/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-53

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.90	0.259	mg/kg	10	B4D0934	04/09/2024	04/11/2024
Barium	86.3	8.94	"	"	"	"	"
Cadmium	0.109	0.0894	"	"	"	"	"
Copper	13.0	8.94	"	"	"	"	"
Lead	11.6	0.894	"	"	"	"	"
Nickel	14.5	0.894	"	"	"	"	"
Selenium	0.234	0.232	"	"	"	"	"
Silver	ND	0.0894	"	"	"	"	"
Zinc	54.7	33.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.187	0.468	mg/kg dry	1	2596458	04/12/2024	04/16/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

SS-54

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404272-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.331	0.100	mg/L	1	B4D1009	04/10/2024	04/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0935	04/09/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	107 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0936	04/09/2024	04/09/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-54

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.7 %	70-130				B4D0936	04/09/2024	04/09/2024	
Surrogate: 4-Bromofluorobenzene	103 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	14.6	0.998	meq/L	20	[CALC]	04/10/2024	04/11/2024	
Magnesium	15.3	1.65	"	"	"	"	"	
Sodium	ND	0.870	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.005	0.005	"	"	"	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-54

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-04 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	107 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	123 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.11	pH Units	1	B4D1017	04/10/2024	04/11/2024
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SAR by 20B Saturated Paste

SAR	0.220	0.0100	SAR	1	B4D1004	04/10/2024	04/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.99	0.00500	mmhos/cm	1	B4D1017	04/10/2024	04/11/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-54

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	6.25	0.243	mg/kg	10	B4D0934	04/09/2024	04/11/2024
Barium	93.3	8.39	"	"	"	"	"
Cadmium	0.124	0.0839	"	"	"	"	"
Copper	13.8	8.39	"	"	"	"	"
Lead	11.8	0.839	"	"	"	"	"
Nickel	15.2	0.839	"	"	"	"	"
Selenium	0.421	0.218	"	"	"	"	"
Silver	0.0864	0.0839	"	"	"	"	"
Zinc	57.3	31.0	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.126	0.315	mg/kg dry	1	2596458	04/12/2024	04/16/2024	U
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Origins Laboratory, Inc.



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
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

FS-51

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404272-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.327	0.0996	mg/L	1	B4D1009	04/10/2024	04/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0935	04/09/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	105 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0936	04/09/2024	04/09/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

FS-51

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.0 %	70-130				B4D0936	04/09/2024	04/09/2024	
Surrogate: 4-Bromofluorobenzene	104 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	22.4	0.499	meq/L	10	[CALC]	04/10/2024	04/11/2024	
Magnesium	30.8	0.823	"	"	"	"	"	
Sodium	6.67	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

FS-51

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404272-05 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	106 %	60-130	"	"	"
Surrogate: Pyrene-d10	92.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	118 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.12	pH Units	1	B4D1017	04/10/2024	04/11/2024
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SAR by 20B Saturated Paste

SAR	1.29	0.0100	SAR	1	B4D1004	04/10/2024	04/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.89	0.00500	mmhos/cm	1	B4D1017	04/10/2024	04/11/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

FS-51

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.31	0.260	mg/kg	10	B4D0934	04/09/2024	04/11/2024
Barium	82.2	8.97	"	"	"	"	"
Cadmium	0.100	0.0897	"	"	"	"	"
Copper	12.9	8.97	"	"	"	"	"
Lead	12.7	0.897	"	"	"	"	"
Nickel	14.6	0.897	"	"	"	"	"
Selenium	0.409	0.233	"	"	"	"	"
Silver	0.0968	0.0897	"	"	"	"	"
Zinc	59.4	33.2	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.141	0.352	mg/kg dry	1	2596458	04/12/2024	04/16/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

FS-52

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404272-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.220	0.100	mg/L	1	B4D1009	04/10/2024	04/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0935	04/09/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	102 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0936	04/09/2024	04/09/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

FS-52

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.1 %	70-130				B4D0936	04/09/2024	04/09/2024	
Surrogate: 4-Bromofluorobenzene	101 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	22.7	0.499	meq/L	10	[CALC]	04/10/2024	04/11/2024	
Magnesium	39.2	0.823	"	"	"	"	"	
Sodium	4.84	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

FS-52

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-06 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	106 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	117 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.13	pH Units	1	B4D1017	04/10/2024	04/11/2024
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SAR by 20B Saturated Paste

SAR	0.869	0.0100	SAR	1	B4D1004	04/10/2024	04/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.99	0.00500	mmhos/cm	1	B4D1017	04/10/2024	04/11/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

FS-52

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.13	0.281	mg/kg	10	B4D0934	04/09/2024	04/11/2024
Barium	60.7	9.68	"	"	"	"	"
Cadmium	ND	0.0968	"	"	"	"	"
Copper	14.2	9.68	"	"	"	"	"
Lead	14.1	0.968	"	"	"	"	"
Nickel	14.8	0.968	"	"	"	"	"
Selenium	0.394	0.252	"	"	"	"	"
Silver	ND	0.0968	"	"	"	"	"
Zinc	62.1	35.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.174	0.435	mg/kg dry	1	2596458	04/12/2024	04/16/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

SS-22-N-2

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404272-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.321	0.0998	mg/L	1	B4D1009	04/10/2024	04/11/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0935	04/09/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	104 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0936	04/09/2024	04/10/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
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Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-22-N-2

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.6 %	70-130				B4D0936	04/09/2024	04/10/2024	
Surrogate: 4-Bromofluorobenzene	103 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	24.2	0.499	meq/L	10	[CALC]	04/10/2024	04/11/2024	
Magnesium	17.0	0.823	"	"	"	"	"	
Sodium	6.92	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-22-N-2

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-07 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4D0937	04/09/2024	04/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	103 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	116 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.15	pH Units	1	B4D1017	04/10/2024	04/11/2024
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SAR by 20B Saturated Paste

SAR	1.52	0.0100	SAR	1	B4D1004	04/10/2024	04/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.59	0.00500	mmhos/cm	1	B4D1017	04/10/2024	04/11/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

SS-22-N-2

4/9/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404272-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.12	0.257	mg/kg	10	B4D0934	04/09/2024	04/11/2024
Barium	69.4	8.86	"	"	"	"	"
Cadmium	0.0957	0.0886	"	"	"	"	"
Copper	13.3	8.86	"	"	"	"	"
Lead	12.6	0.886	"	"	"	"	"
Nickel	14.8	0.886	"	"	"	"	"
Selenium	0.337	0.230	"	"	"	"	"
Silver	0.0983	0.0886	"	"	"	"	"
Zinc	60.8	32.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.158	0.395	mg/kg dry	1	2596458	04/12/2024	04/16/2024	U
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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0935 - EPA 3550B										
Blank (B4D0935-BLK1)					Prepared: 04/09/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	29		"	24.9		116	50-150			

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0935 - EPA 3550B

LCS (B4D0935-BS1)

Prepared: 04/09/2024 Analyzed: 04/10/2024

Diesel (C10-C28)	894	50.0	mg/kg	1000		89.4	70-130			
Residual Range Organics (C28-C40)	985	200	"	1000		98.5	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0935 - EPA 3550B

Matrix Spike (B4D0935-MS1)		Source: Y404272-01			Prepared: 04/09/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130			
Residual Range Organics (C28-C40)	996	200	"	1000	ND	99.6	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0935 - EPA 3550B

Matrix Spike Dup (B4D0935-MSD1)		Source: Y404272-01			Prepared: 04/09/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	905	50.0	mg/kg	1000	ND	90.5	70-130	0.457	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	1.42	35	
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

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Fremont Environmental

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Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0936 - EPA 5030 (soil)										
Blank (B4D0936-BLK1)					Prepared: 04/09/2024 Analyzed: 04/09/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0936 - EPA 5030 (soil)

LCS (B4D0936-BS1)

Prepared: 04/09/2024 Analyzed: 04/09/2024

1,2,4-Trimethylbenzene	0.120	0.00200	mg/kg	0.100		120	70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100		118	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.228	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	96.4		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.9		70-130			

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0936 - EPA 5030 (soil)

Matrix Spike (B4D0936-MS1)		Source: Y404272-01			Prepared: 04/09/2024 Analyzed: 04/09/2024					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Benzene	0.107	0.00200	"	0.100	ND	107	70-130			
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130			
Naphthalene	0.105	0.00380	"	0.100	ND	105	70-130			
Toluene	0.106	0.00200	"	0.100	ND	106	70-130			
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130			
m,p-Xylene	0.230	0.00400	"	0.200	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0936 - EPA 5030 (soil)

Matrix Spike Dup (B4D0936-MSD1)		Source: Y404272-01			Prepared: 04/09/2024 Analyzed: 04/09/2024					
1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100	ND	115	70-130	3.72	20	
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130	2.78	20	
Benzene	0.111	0.00200	"	0.100	ND	111	70-130	4.35	20	
Ethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130	2.06	20	
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130	2.16	20	
Toluene	0.111	0.00200	"	0.100	ND	111	70-130	3.85	20	
o-Xylene	0.116	0.00200	"	0.100	ND	116	70-130	2.81	20	
m,p-Xylene	0.233	0.00400	"	0.200	ND	117	70-130	1.23	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0934 - EPA 3050B

Blank (B4D0934-BLK1)

Prepared: 04/09/2024 Analyzed: 04/11/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4D0934-BS1)

Prepared: 04/09/2024 Analyzed: 04/11/2024

Arsenic	5.47	0.290	mg/kg	5.00	109	80-120
Barium	519	10.0	"	500	104	80-120
Cadmium	5.73	0.100	"	5.00	115	80-120
Copper	56.2	10.0	"	50.0	112	80-120
Lead	5.54	1.00	"	5.00	111	80-120
Nickel	5.56	1.00	"	5.00	111	80-120
Selenium	9.86	0.260	"	9.50	104	80-120
Silver	5.93	0.100	"	5.00	119	80-120
Zinc	58.5	37.0	"	50.0	117	80-120

Matrix Spike (B4D0934-MS1)

Source: Y404271-01

Prepared: 04/09/2024 Analyzed: 04/11/2024

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0934 - EPA 3050B										
Matrix Spike (B4D0934-MS1)		Source: Y404271-01			Prepared: 04/09/2024 Analyzed: 04/11/2024					
Arsenic	10.4	0.284	mg/kg	4.89	7.86	52.4	75-125			QM-07
Barium	653	9.78	"	489	221	88.4	75-125			
Cadmium	5.54	0.0978	"	4.89	0.474	104	75-125			
Copper	67.8	9.78	"	48.9	15.4	107	75-125			
Lead	16.8	0.978	"	4.89	11.3	113	75-125			
Nickel	20.2	0.978	"	4.89	16.2	82.2	75-125			
Selenium	9.22	0.254	"	9.29	0.160	97.5	75-125			
Silver	5.22	0.0978	"	4.89	0.0799	105	75-125			
Zinc	101	36.2	"	48.9	50.1	103	75-125			
Matrix Spike Dup (B4D0934-MSD1)		Source: Y404271-01			Prepared: 04/09/2024 Analyzed: 04/11/2024					
Arsenic	12.3	0.281	mg/kg	4.85	7.86	90.6	75-125	16.2	20	
Barium	1110	9.71	"	485	221	183	75-125	51.7	20	QM-02, QR-DUP
Cadmium	5.94	0.0971	"	4.85	0.474	113	75-125	6.99	20	
Copper	72.2	9.71	"	48.5	15.4	117	75-125	6.21	20	
Lead	17.8	0.971	"	4.85	11.3	134	75-125	5.64	20	QM-07
Nickel	24.0	0.971	"	4.85	16.2	160	75-125	16.9	20	QM-07
Selenium	9.76	0.252	"	9.22	0.160	104	75-125	5.68	20	
Silver	5.60	0.0971	"	4.85	0.0799	114	75-125	7.04	20	
Zinc	105	35.9	"	48.5	50.1	113	75-125	4.53	20	

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0937 - EPA 3580

Blank (B4D0937-BLK1)

Prepared: 04/09/2024 Analyzed: 04/09/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200	101	60-130
Surrogate: Anthracene-d10	220		"	200	108	60-130
Surrogate: Pyrene-d10	190		"	200	93.4	60-130
Surrogate: Benzo (a) pyrene-d12	240		"	200	119	60-130

LCS (B4D0937-BS1)

Prepared: 04/09/2024 Analyzed: 04/09/2024

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	96.1	70-130
2-Methylnaphthalene	0.196	0.002	"	0.200	97.9	70-130
Acenaphthene	0.162	0.020	"	0.200	80.8	70-130
Anthracene	0.182	0.020	"	0.200	90.9	70-130

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0937 - EPA 3580

LCS (B4D0937-BS1)

Prepared: 04/09/2024 Analyzed: 04/09/2024

Benzo (a) anthracene	0.173	0.005	mg/kg	0.200		86.3	70-130
Benzo (a) pyrene	0.217	0.020	"	0.200		109	70-130
Benzo (b) fluoranthene	0.222	0.020	"	0.200		111	70-130
Benzo (g,h,i) perylene	0.228	0.020	"	0.200		114	70-130
Benzo (k) fluoranthene	0.204	0.020	"	0.200		102	70-130
Chrysene	0.175	0.020	"	0.200		87.5	70-130
Dibenz (a,h) anthracene	0.256	0.020	"	0.200		128	70-130
Fluoranthene	0.160	0.020	"	0.200		80.1	70-130
Fluorene	0.159	0.020	"	0.200		79.6	70-130
Indeno (1,2,3-cd) pyrene	0.237	0.020	"	0.200		118	70-130
Naphthalene	0.171	0.002	"	0.200		85.6	70-130
Phenanthrene	0.181	0.020	"	0.200		90.3	70-130
Pyrene	0.164	0.020	"	0.200		81.9	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130
Surrogate: Anthracene-d10	200		"	200		102	60-130
Surrogate: Pyrene-d10	180		"	200		90.1	60-130
Surrogate: Benzo (a) pyrene-d12	240		"	200		121	60-130

Matrix Spike (B4D0937-MS1)

Source: Y404272-01

Prepared: 04/09/2024 Analyzed: 04/09/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	0.0009	98.7	70-130
2-Methylnaphthalene	0.203	0.002	"	0.200	0.001	101	70-130
Acenaphthene	0.168	0.020	"	0.200	ND	83.9	70-130
Anthracene	0.182	0.020	"	0.200	ND	90.9	70-130
Benzo (a) anthracene	0.179	0.005	"	0.200	0.003	87.9	70-130
Benzo (a) pyrene	0.217	0.020	"	0.200	0.005	106	70-130
Benzo (b) fluoranthene	0.234	0.020	"	0.200	0.005	115	70-130
Benzo (g,h,i) perylene	0.226	0.020	"	0.200	0.005	110	70-130

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0937 - EPA 3580

Matrix Spike (B4D0937-MS1)		Source: Y404272-01			Prepared: 04/09/2024 Analyzed: 04/09/2024					
Benzo (k) fluoranthene	0.180	0.020	mg/kg	0.200	0.005	87.6	70-130			
Chrysene	0.184	0.020	"	0.200	0.005	89.6	70-130			
Dibenz (a,h) anthracene	0.248	0.020	"	0.200	0.005	121	70-130			
Fluoranthene	0.166	0.020	"	0.200	0.003	81.3	70-130			
Fluorene	0.166	0.020	"	0.200	0.001	82.4	70-130			
Indeno (1,2,3-cd) pyrene	0.233	0.020	"	0.200	0.007	113	70-130			
Naphthalene	0.174	0.002	"	0.200	ND	86.9	70-130			
Phenanthrene	0.189	0.020	"	0.200	0.002	93.8	70-130			
Pyrene	0.173	0.020	"	0.200	0.002	85.4	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		92.0	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		117	60-130			

Matrix Spike Dup (B4D0937-MSD1)		Source: Y404272-01			Prepared: 04/09/2024 Analyzed: 04/09/2024					
1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	0.0009	99.0	70-130	0.339	20	
2-Methylnaphthalene	0.197	0.002	"	0.200	0.001	97.8	70-130	2.74	20	
Acenaphthene	0.169	0.020	"	0.200	ND	84.7	70-130	0.940	20	
Anthracene	0.177	0.020	"	0.200	ND	88.5	70-130	2.61	20	
Benzo (a) anthracene	0.177	0.005	"	0.200	0.003	86.9	70-130	1.10	20	
Benzo (a) pyrene	0.217	0.020	"	0.200	0.005	106	70-130	0.0983	20	
Benzo (b) fluoranthene	0.237	0.020	"	0.200	0.005	116	70-130	0.877	20	
Benzo (g,h,i) perylene	0.227	0.020	"	0.200	0.005	111	70-130	0.606	20	
Benzo (k) fluoranthene	0.207	0.020	"	0.200	0.005	101	70-130	14.3	20	
Chrysene	0.181	0.020	"	0.200	0.005	88.2	70-130	1.62	20	
Dibenz (a,h) anthracene	0.250	0.020	"	0.200	0.005	122	70-130	0.761	20	
Fluoranthene	0.163	0.020	"	0.200	0.003	79.8	70-130	1.76	20	

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Chevron - Raindance Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D0937 - EPA 3580

Matrix Spike Dup (B4D0937-MSD1)		Source: Y404272-01			Prepared: 04/09/2024 Analyzed: 04/09/2024					
Fluorene	0.155	0.020	mg/kg	0.200	0.001	76.8	70-130	6.97	20	
Indeno (1,2,3-cd) pyrene	0.233	0.020	"	0.200	0.007	113	70-130	0.0608	20	
Naphthalene	0.173	0.002	"	0.200	ND	86.4	70-130	0.625	20	
Phenanthrene	0.183	0.020	"	0.200	0.002	90.6	70-130	3.38	20	
Pyrene	0.170	0.020	"	0.200	0.002	84.3	70-130	1.34	20	
Surrogate: Fluorene-d10	200		ug/kg	200		97.5	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		91.4	60-130			
Surrogate: Benzo (a) pyrene-d12	240		"	200		120	60-130			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D1004 - Saturated Paste Metals

Blank (B4D1004-BLK1)

Prepared: 04/10/2024 Analyzed: 04/11/2024

Calcium PPM	ND	10.0	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B4D1004-DUP1)

Source: Y404264-02

Prepared: 04/10/2024 Analyzed: 04/11/2024

SAR	ND	0.0100	SAR	1.12			200
Calcium PPM	250	10.0	mg/L	233		7.26	50
Magnesium PPM	150	10.0	"	139		7.91	50
Sodium PPM	93.0	10.0	"	87.1		6.61	50

Batch B4D1009 - DTPA Sorbitol Preparation

Blank (B4D1009-BLK1)

Prepared: 04/10/2024 Analyzed: 04/11/2024

Boron	ND	0.100	mg/L
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Duplicate (B4D1009-DUP1)

Source: Y404264-02

Prepared: 04/10/2024 Analyzed: 04/11/2024

Boron	0.671	0.0990	mg/L	0.669		0.353	50
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Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D1017 - Saturated Paste pH/EC										
Blank (B4D1017-BLK1)					Prepared: 04/10/2024 Analyzed: 04/11/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4D1017-DUP1)					Source: Y404264-02 Prepared: 04/10/2024 Analyzed: 04/11/2024					
pH	8.26		pH Units		8.27			0.121	25	
Specific Conductance (EC)	1.93	0.00500	mmhos/cm		1.74			10.3	25	

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2596458 - SW846 3060A										
BLANK (1205702686-BLK)					Prepared: 04/12/2024 Analyzed: 04/16/2024					
Hexavalent Chromium	ND	0.352	mg/kg				-			U
LCS (1205702687-BKS)					Prepared: 04/12/2024 Analyzed: 04/16/2024					
Hexavalent Chromium	2.69	0.272	mg/kg	2.72		98.6	80-120			
DUP (1205702688 D)					Source: 662748001 Prepared: 04/12/2024 Analyzed: 04/16/2024					
Hexavalent Chromium	0.153	0.344	mg/kg dry		0.191		0-50	21.9	50	J
MS (1205702689 S)					Source: 662748001 Prepared: 04/12/2024 Analyzed: 04/16/2024					
Hexavalent Chromium	3.00	0.376	mg/kg dry	3.76	0.191	74.7	75-125			
DUP (1205702690 D)					Source: 662754001 Prepared: 04/12/2024 Analyzed: 04/16/2024					
Hexavalent Chromium	ND	0.417	mg/kg dry		<0.167		0-50	N/A	50	U
MS (1205702691 S)					Source: 662754001 Prepared: 04/12/2024 Analyzed: 04/16/2024					
Hexavalent Chromium	1.08	0.465	mg/kg dry	4.65	<0.186	23.3	75-125			
ILCS (1205702692-ILCS)					Prepared: 04/12/2024 Analyzed: 04/16/2024					
Hexavalent Chromium	4.85	0.239	mg/kg	4.88		99.4	80-120			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Chevron - Raindance Pad

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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.



June 05, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Raindance

Project Number - [none]

Attached are your analytical results for Raindance received by Origins Laboratory, Inc. June 03, 2024. This project is associated with Origins project number Y406057-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: Raindance

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW	Y406057-01	Water	June 3, 2024 0:00	06/03/2024 17:15

Origins Laboratory, Inc.



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

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Raindance

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4406057

Client: Fremont

Client Project ID: Raindance

Checklist Completed by: JTV

Shipped Via: TUP

Date/time completed: 6/14/24

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1, 7 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽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"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" 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 date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) WCH

Date/Time Reviewed 6/14/24

Origins Laboratory, Inc.

J. Bynon

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

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Raindance

PW

6/3/2024 12:00:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y406057-01 (Water)

Total Metals by EPA 200.8

Arsenic	0.998	0.100	ug/L	1	B4F0404	HJD	06/04/2024	06/05/2024	
Barium	13900	10.0	"	10	"	ZZZ	"	06/05/2024	
Cadmium	ND	1.00	"	"	"	ZZZ	"	"	
Copper	2.10	1.00	"	1	"	HJD	"	06/05/2024	
Lead	ND	1.00	"	10	"	ZZZ	"	06/05/2024	
Nickel	4.92	1.00	"	1	"	HJD	"	06/05/2024	
Selenium	0.765	0.100	"	"	"	HJD	"	"	
Silver	ND	5.00	"	10	"	ZZZ	"	06/05/2024	
Zinc	559	5.00	"	1	"	HJD	"	06/05/2024	

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Raindance

Metals by EPA 200 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0404 - EPA 200.8 Preparation

Blank (B4F0404-BLK1)

Prepared: 06/04/2024 Analyzed: 06/05/2024

Arsenic	ND	1.00	ug/L
Barium	ND	10.0	"
Cadmium	ND	1.00	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	10.0	"
Selenium	ND	1.00	"
Silver	ND	5.00	"
Zinc	ND	50.0	"

LCS (B4F0404-BS1)

Prepared: 06/04/2024 Analyzed: 06/05/2024

Arsenic	51.4	1.00	ug/L	50.0	103	85-115
Barium	4740	10.0	"	5000	94.8	85-115
Cadmium	50.4	1.00	"	50.0	101	85-115
Copper	511	10.0	"	500	102	85-115
Lead	49.1	1.00	"	50.0	98.3	85-115
Nickel	52.1	10.0	"	50.0	104	85-115
Selenium	95.7	1.00	"	95.0	101	85-115
Silver	49.9	5.00	"	50.0	99.8	85-115
Zinc	530	50.0	"	500	106	85-115

Matrix Spike (B4F0404-MS1)

Source: Y405873-01

Prepared: 06/04/2024 Analyzed: 06/05/2024

Arsenic	52.6	1.00	ug/L	50.0	ND	105	70-130
Barium	5280	10.0	"	5000	64.0	104	70-130
Cadmium	52.1	1.00	"	50.0	ND	104	70-130
Copper	505	10.0	"	500	ND	101	70-130
Lead	52.8	1.00	"	50.0	0.685	104	70-130

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Raindance

Metals by EPA 200 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0404 - EPA 200.8 Preparation

Matrix Spike (B4F0404-MS1)		Source: Y405873-01			Prepared: 06/04/2024 Analyzed: 06/05/2024					
Nickel	55.9	10.0	ug/L	50.0	4.34	103	70-130			
Selenium	98.6	1.00	"	95.0	2.90	101	70-130			
Silver	50.3	5.00	"	50.0	ND	101	70-130			
Zinc	533	50.0	"	500	ND	107	70-130			
Matrix Spike Dup (B4F0404-MSD1)		Source: Y405873-01			Prepared: 06/04/2024 Analyzed: 06/05/2024					
Arsenic	54.0	1.00	ug/L	50.0	ND	108	70-130	2.67	25	
Barium	4920	10.0	"	5000	64.0	97.2	70-130	7.02	25	
Cadmium	52.1	1.00	"	50.0	ND	104	70-130	0.0384	25	
Copper	525	10.0	"	500	ND	105	70-130	3.77	25	
Lead	50.8	1.00	"	50.0	0.685	100	70-130	3.77	25	
Nickel	53.6	10.0	"	50.0	4.34	98.6	70-130	4.05	25	
Selenium	99.2	1.00	"	95.0	2.90	101	70-130	0.566	25	
Silver	50.0	5.00	"	50.0	ND	100	70-130	0.598	25	
Zinc	545	50.0	"	500	ND	109	70-130	2.20	25	

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: Raindance

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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