

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 08, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Ball Ranch AC 15-65HN (EX)

Work Order #2410084

Enclosed are the results of analyses for samples received by Summit Scientific on 10/04/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial 'J' and 'W'.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124

Project Manager: Paul Henchan

Reported:
10/08/24 14:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N Wall 8ft	2410084-01	Soil	10/04/24 00:00	10/04/24 16:30
S Wall 8ft	2410084-02	Soil	10/04/24 00:00	10/04/24 16:30
E Wall 8ft	2410084-03	Soil	10/04/24 00:00	10/04/24 16:30
W Wall 8ft	2410084-04	Soil	10/04/24 00:00	10/04/24 16:30
Floor 9ft	2410084-05	Soil	10/04/24 00:00	10/04/24 16:30

Case Narrative

Project name has been corrected to match COC on 10/8/2024.

This is a revision of the report originally sent on 10/8/2024 at 12:24 PM MT.

Summit Scientific

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SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 7
2410084	

Client: Fremont Environmental, Inc.		Send Data To:		Send Invoice To:	
Address: 8305 6th St.,		Project Manager: Henehan		Company: <u>Chevron</u>	
City/State/Zip: Wellington, CO, 80549		E-Mail: <u>Chevron Dist. List, PBO Dist. List, Civitas Dist. List, Fremont Dist. List</u>		Project Name/Location:	
Phone: 603-477-6907		E-Reports: <u>reports@fremontenv.com, ethanb@fremontenv.com, paulh@fremontenv.com</u>		AFE#:	
Sampler Name: Ethan Black		Project Name: <u>Noble - Ball Ranch AC 15-65HN (Ex)</u>		PO/Billing Codes: <u>UWRCU-A2002-ABN</u>	
		Project Number: <u>C022-124</u>		Contact: <u>Dan Peterson</u>	

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

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>10/4/24 1456</u>	Received by: <u>S2 - North Office</u>	Date/Time: <u>10/4/24 1456</u>	TAT Business Days	Field DO	Notes: - Please dist. to circle parties only. - Sample jars labeled "B.R."
Relinquished by: <u>S2</u>	Date/Time: <u>10/4/24 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/4/24 1630</u>	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>7.5</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2410084

Client: Fremont Client Project ID: Noble-Ball Ranch AC 15-16 HN (EX)

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

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

Temp (°C) 7.3 Thermometer # 1

Table with 5 columns: Question, Yes, No, N/A, Comments (if any). Rows include questions about cooling, custody seals, sample timing, analysis types, COC forms, sample integrity, volume, COC agreement, labels, headspace, preservation, pH, and filtering.

Additional Comments (if any):

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.

AS Custodian Printed Name

10/4/24 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)
Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

N Wall 8ft
2410084-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0234	10/04/24	10/04/24	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: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0551	138 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0422	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0236	10/04/24	10/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.0	104 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Ball Ranch AC 15-65HN (EX)
Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

N Wall 8ft
2410084-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0255	10/07/24	10/07/24	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: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0136	40.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0259	10/07/24	10/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

N Wall 8ft
2410084-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	16.1	0.181	mg/kg dry	1	BHJ0257	10/07/24	10/07/24	EPA 6020B	
Barium	45.1	0.362	"	"	"	"	"	"	
Cadmium	0.478	0.181	"	"	"	"	"	"	
Copper	15.9	0.362	"	"	"	"	"	"	
Lead	13.0	0.181	"	"	"	"	"	"	
Nickel	27.9	0.362	"	"	"	"	"	"	
Silver	0.0470	0.0181	"	"	"	"	"	"	
Zinc	239	0.362	"	"	"	"	"	"	
Selenium	0.841	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0260	10/07/24	10/07/24	EPA 7196A	

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

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.8	0.0500	mg/L dry	1	BHJ0239	10/06/24	10/07/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	57.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.11	0.00100	units	1	BHJ0301	10/08/24	10/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Project Number: UWRCUL-A2002-ABN CO22-124
 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

N Wall 8ft
2410084-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.5	%	1	BHJ0261	10/07/24	10/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.510	0.0100	mmhos/cm	1	BHJ0241	10/06/24	10/07/24	EPA 120.1	

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

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.69		pH Units	1	BHJ0242	10/06/24	10/07/24	EPA 9045D	

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Project: Noble - Ball Ranch AC 15-65HN (EX)
Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

S Wall 8ft
2410084-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0234	10/04/24	10/04/24	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: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0602	151 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8	0.0428	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0455	114 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0236	10/04/24	10/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.2	114 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

S Wall 8ft
2410084-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0255	10/07/24	10/07/24	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: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0138	41.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0259	10/07/24	10/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

S Wall 8ft
2410084-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.73	0.200	mg/kg dry	1	BHJ0257	10/07/24	10/07/24	EPA 6020B	
Barium	65.3	0.400	"	"	"	"	"	"	
Cadmium	0.216	0.200	"	"	"	"	"	"	
Copper	11.1	0.400	"	"	"	"	"	"	
Lead	8.60	0.200	"	"	"	"	"	"	
Nickel	7.83	0.400	"	"	"	"	"	"	
Silver	0.0445	0.0200	"	"	"	"	"	"	
Zinc	71.6	0.400	"	"	"	"	"	"	
Selenium	0.269	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0260	10/07/24	10/07/24	EPA 7196A	

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

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.8	0.0500	mg/L dry	1	BHJ0239	10/06/24	10/07/24	EPA 6020B	
Magnesium	19.3	0.0500	"	"	"	"	"	"	
Sodium	61.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.93	0.00100	units	1	BHJ0301	10/08/24	10/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

S Wall 8ft
2410084-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.6	%	1	BHJ0261	10/07/24	10/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.151	0.0100	mmhos/cm	1	BHJ0241	10/06/24	10/07/24	EPA 120.1	

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

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.65		pH Units	1	BHJ0242	10/06/24	10/07/24	EPA 9045D	

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Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

E Wall 8ft
2410084-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0234	10/04/24	10/04/24	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: **10/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0533	133 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0429	107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0427	107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0236	10/04/24	10/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.8	102 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

E Wall 8ft
2410084-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0255	10/07/24	10/07/24	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: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0137	41.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0136	40.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0259	10/07/24	10/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/04/24 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: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

E Wall 8ft
2410084-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.88	0.200	mg/kg dry	1	BHJ0257	10/07/24	10/07/24	EPA 6020B	
Barium	195	0.400	"	"	"	"	"	"	
Cadmium	0.230	0.200	"	"	"	"	"	"	
Copper	8.40	0.400	"	"	"	"	"	"	
Lead	7.79	0.200	"	"	"	"	"	"	
Nickel	7.94	0.400	"	"	"	"	"	"	
Silver	0.0344	0.0200	"	"	"	"	"	"	
Zinc	51.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0260	10/07/24	10/07/24	EPA 7196A	

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

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	88.4	0.0500	mg/L dry	1	BHJ0239	10/06/24	10/07/24	EPA 6020B	
Magnesium	12.6	0.0500	"	"	"	"	"	"	
Sodium	15.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.411	0.00100	units	1	BHJ0301	10/08/24	10/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/04/24 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: Noble - Ball Ranch AC 15-65HN (EX)
 Project Number: UWRCUL-A2002-ABN CO22-124
 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

**E Wall 8ft
 2410084-03 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	77.6	%	1	BHJ0261	10/07/24	10/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/04/24 00:00**

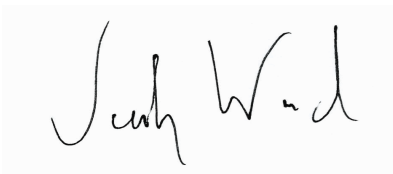
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.566	0.0100	mmhos/cm	1	BHJ0241	10/06/24	10/07/24	EPA 120.1	

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

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.14		pH Units	1	BHJ0242	10/06/24	10/07/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)
Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

W Wall 8ft
2410084-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0234	10/04/24	10/04/24	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: **10/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0528	132 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0431	108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0236	10/04/24	10/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.4	107 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)
Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

W Wall 8ft
2410084-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0255	10/07/24	10/07/24	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: **10/04/24 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	0.0163	48.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0259	10/07/24	10/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/04/24 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: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

**W Wall 8ft
2410084-04 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.98	0.200	mg/kg dry	1	BHJ0257	10/07/24	10/07/24	EPA 6020B	
Barium	24.7	0.400	"	"	"	"	"	"	
Cadmium	0.239	0.200	"	"	"	"	"	"	
Copper	10.4	0.400	"	"	"	"	"	"	
Lead	8.97	0.200	"	"	"	"	"	"	
Nickel	10.8	0.400	"	"	"	"	"	"	
Silver	0.0393	0.0200	"	"	"	"	"	"	
Zinc	92.0	0.400	"	"	"	"	"	"	
Selenium	0.646	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0260	10/07/24	10/07/24	EPA 7196A	

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

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.6	0.0500	mg/L dry	1	BHJ0239	10/06/24	10/07/24	EPA 6020B	
Magnesium	15.1	0.0500	"	"	"	"	"	"	
Sodium	60.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/04/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.05	0.00100	units	1	BHJ0301	10/08/24	10/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/04/24 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: Noble - Ball Ranch AC 15-65HN (EX)
 Project Number: UWRCUL-A2002-ABN CO22-124
 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

W Wall 8ft
2410084-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.2	%	1	BHJ0261	10/07/24	10/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.484	0.0100	mmhos/cm	1	BHJ0241	10/06/24	10/07/24	EPA 120.1	

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

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BHJ0242	10/06/24	10/07/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)
Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

Floor 9ft
2410084-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0234	10/04/24	10/05/24	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: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0534	133 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0420	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0236	10/04/24	10/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.6	84.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

Floor 9ft
2410084-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0255	10/07/24	10/07/24	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: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0125	37.4 %	40-150		"	"	"	"	S-04
Surrogate: Fluoranthene-d10	0.0144	43.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0259	10/07/24	10/07/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/04/24 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: Noble - Ball Ranch AC 15-65HN (EX)
Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

Floor 9ft
2410084-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.32	0.200	mg/kg dry	1	BHJ0257	10/07/24	10/07/24	EPA 6020B	
Barium	99.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	9.59	0.400	"	"	"	"	"	"	
Lead	8.38	0.200	"	"	"	"	"	"	
Nickel	2.17	0.400	"	"	"	"	"	"	
Silver	0.0454	0.0200	"	"	"	"	"	"	
Zinc	13.5	0.400	"	"	"	"	"	"	
Selenium	0.267	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0260	10/07/24	10/07/24	EPA 7196A	

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

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.1	0.0500	mg/L dry	1	BHJ0239	10/06/24	10/07/24	EPA 6020B	
Magnesium	15.9	0.0500	"	"	"	"	"	"	
Sodium	67.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.25	0.00100	units	1	BHJ0301	10/08/24	10/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/04/24 00:00**

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

Project: Noble - Ball Ranch AC 15-65HN (EX)
 Project Number: UWRCUL-A2002-ABN CO22-124
 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

Floor 9ft
2410084-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	77.8	%	1	BHJ0261	10/07/24	10/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/04/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.238	0.0100	mmhos/cm	1	BHJ0241	10/06/24	10/07/24	EPA 120.1	

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

Date Sampled: **10/04/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BHJ0242	10/06/24	10/07/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHJ0234 - EPA 5030 Soil MS

Blank (BHJ0234-BLK1)

Prepared & Analyzed: 10/04/24

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0525</i>		<i>"</i>	<i>0.0400</i>		<i>131</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>				

LCS (BHJ0234-BS1)

Prepared & Analyzed: 10/04/24

Benzene	0.100	0.0020	mg/kg	0.100		100	70-130				
Toluene	0.104	0.0050	"	0.100		104	70-130				
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130				
m,p-Xylene	0.214	0.010	"	0.200		107	70-130				
o-Xylene	0.106	0.0050	"	0.100		106	70-130				
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130				
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130				
Naphthalene	0.0863	0.0038	"	0.100		86.3	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0515</i>		<i>"</i>	<i>0.0400</i>		<i>129</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>				

Matrix Spike (BHJ0234-MS1)

Source: 2410084-01

Prepared & Analyzed: 10/04/24

Benzene	0.0949	0.0020	mg/kg	0.100	ND	94.9	70-130				
Toluene	0.0985	0.0050	"	0.100	ND	98.5	70-130				
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130				
m,p-Xylene	0.199	0.010	"	0.200	ND	99.3	70-130				
o-Xylene	0.0988	0.0050	"	0.100	ND	98.8	70-130				
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130				
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130				
Naphthalene	0.0787	0.0038	"	0.100	ND	78.7	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0520</i>		<i>"</i>	<i>0.0400</i>		<i>130</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0413</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHJ0234 - EPA 5030 Soil MS

Matrix Spike Dup (BHJ0234-MSD1)	Source: 2410084-01			Prepared & Analyzed: 10/04/24						
Benzene	0.104	0.0020	mg/kg	0.100	ND	104	70-130	9.58	30	
Toluene	0.107	0.0050	"	0.100	ND	107	70-130	8.35	30	
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	3.43	30	
m,p-Xylene	0.206	0.010	"	0.200	ND	103	70-130	3.53	30	
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130	2.16	30	
1,2,4-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	3.04	30	
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	3.01	30	
Naphthalene	0.0787	0.0038	"	0.100	ND	78.7	70-130	0.0381	30	
Surrogate: 1,2-Dichloroethane-d4	0.0581		"	0.0400		145	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0435		"	0.0400		109	50-150			

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Project: Noble - Ball Ranch AC 15-65HN (EX)
 Project Number: UWRCUL-A2002-ABN CO22-124
 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHJ0236 - EPA 3550A

Blank (BHJ0236-BLK1)

Prepared: 10/04/24 Analyzed: 10/07/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.3	30-150			

LCS (BHJ0236-BS1)

Prepared: 10/04/24 Analyzed: 10/07/24

C10-C28 (DRO)	477	50	mg/kg	500		95.5	70-130			
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.7	30-150			

Matrix Spike (BHJ0236-MS1)

Source: 2410084-01

Prepared: 10/04/24 Analyzed: 10/07/24

C10-C28 (DRO)	506	50	mg/kg	500	ND	101	70-130			
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		101	30-150			

Matrix Spike Dup (BHJ0236-MSD1)

Source: 2410084-01

Prepared: 10/04/24 Analyzed: 10/07/24

C10-C28 (DRO)	480	50	mg/kg	500	ND	96.0	70-130	5.32	20	
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.6	30-150			

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Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHJ0255 - EPA 5030 Soil MS

Blank (BHJ0255-BLK1)

Prepared & Analyzed: 10/07/24

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0201</i>		"	<i>0.0333</i>		<i>60.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0207</i>		"	<i>0.0333</i>		<i>62.2</i>	<i>40-150</i>			

LCS (BHJ0255-BS1)

Prepared & Analyzed: 10/07/24

Acenaphthene	0.0231	0.00500	mg/kg	0.0333		69.3	31-137			
Anthracene	0.0244	0.00500	"	0.0333		73.1	30-120			
Benzo (a) anthracene	0.0242	0.00500	"	0.0333		72.6	30-120			
Benzo (a) pyrene	0.0222	0.00500	"	0.0333		66.6	30-120			
Benzo (b) fluoranthene	0.0227	0.00500	"	0.0333		68.1	30-120			
Benzo (k) fluoranthene	0.0232	0.00500	"	0.0333		69.6	30-120			
Chrysene	0.0241	0.00500	"	0.0333		72.2	30-120			
Dibenz (a,h) anthracene	0.0207	0.00500	"	0.0333		62.0	30-120			
Fluoranthene	0.0238	0.00500	"	0.0333		71.5	30-120			
Fluorene	0.0237	0.00500	"	0.0333		71.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0211	0.00500	"	0.0333		63.2	30-120			
Pyrene	0.0233	0.00500	"	0.0333		69.8	35-142			
1-Methylnaphthalene	0.0170	0.00500	"	0.0333		51.0	35-142			
2-Methylnaphthalene	0.0188	0.00500	"	0.0333		56.5	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0176</i>		"	<i>0.0333</i>		<i>52.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0239</i>		"	<i>0.0333</i>		<i>71.8</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHJ0255 - EPA 5030 Soil MS

Matrix Spike (BHJ0255-MS1)	Source: 2410084-01			Prepared & Analyzed: 10/07/24				QM-01	
Acenaphthene	0.0111	0.00500	mg/kg	0.0333	ND	33.2	31-137		
Anthracene	0.0118	0.00500	"	0.0333	ND	35.4	30-120		
Benzo (a) anthracene	0.0111	0.00500	"	0.0333	ND	33.4	30-120		
Benzo (a) pyrene	0.00896	0.00500	"	0.0333	ND	26.9	30-120		QM-05
Benzo (b) fluoranthene	0.00894	0.00500	"	0.0333	ND	26.8	30-120		QM-05
Benzo (k) fluoranthene	0.00929	0.00500	"	0.0333	ND	27.9	30-120		QM-05
Chrysene	0.0104	0.00500	"	0.0333	ND	31.1	30-120		
Dibenz (a,h) anthracene	0.00754	0.00500	"	0.0333	ND	22.6	30-120		QM-05
Fluoranthene	0.0111	0.00500	"	0.0333	ND	33.2	30-120		
Fluorene	0.0116	0.00500	"	0.0333	ND	34.9	30-120		
Indeno (1,2,3-cd) pyrene	0.00771	0.00500	"	0.0333	ND	23.1	30-120		QM-05
Pyrene	0.00983	0.00500	"	0.0333	ND	29.5	35-142		QM-05
1-Methylnaphthalene	0.00996	0.00500	"	0.0333	ND	29.9	15-130		
2-Methylnaphthalene	0.0115	0.00500	"	0.0333	ND	34.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0110		"	0.0333		32.9	40-150		QM-05
Surrogate: Fluoranthene-d10	0.0113		"	0.0333		34.0	40-150		QM-05

Matrix Spike Dup (BHJ0255-MSD1)	Source: 2410084-01			Prepared & Analyzed: 10/07/24				QM-01	
Acenaphthene	0.0113	0.00500	mg/kg	0.0333	ND	33.8	31-137	1.96	30
Anthracene	0.0120	0.00500	"	0.0333	ND	36.0	30-120	1.66	30
Benzo (a) anthracene	0.0108	0.00500	"	0.0333	ND	32.5	30-120	2.95	30
Benzo (a) pyrene	0.00804	0.00500	"	0.0333	ND	24.1	30-120	10.9	30
Benzo (b) fluoranthene	0.00798	0.00500	"	0.0333	ND	23.9	30-120	11.4	30
Benzo (k) fluoranthene	0.00830	0.00500	"	0.0333	ND	24.9	30-120	11.3	30
Chrysene	0.00975	0.00500	"	0.0333	ND	29.3	30-120	6.21	30
Dibenz (a,h) anthracene	0.00865	0.00500	"	0.0333	ND	26.0	30-120	13.8	30
Fluoranthene	0.0107	0.00500	"	0.0333	ND	32.1	30-120	3.45	30
Fluorene	0.0121	0.00500	"	0.0333	ND	36.2	30-120	3.53	30
Indeno (1,2,3-cd) pyrene	0.00745	0.00500	"	0.0333	ND	22.3	30-120	3.50	30
Pyrene	0.0103	0.00500	"	0.0333	ND	30.8	35-142	4.44	30
1-Methylnaphthalene	0.00985	0.00500	"	0.0333	ND	29.6	15-130	1.04	50
2-Methylnaphthalene	0.0107	0.00500	"	0.0333	ND	32.2	15-130	6.47	50
Surrogate: 2-Methylnaphthalene-d10	0.0105		"	0.0333		31.4	40-150		QM-05
Surrogate: Fluoranthene-d10	0.0107		"	0.0333		32.1	40-150		QM-05

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

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

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

Batch BHJ0259 - EPA 3050B

Blank (BHJ0259-BLK1)

Prepared & Analyzed: 10/07/24

Boron ND 2.00 mg/L

LCS (BHJ0259-BS1)

Prepared & Analyzed: 10/07/24

Boron 5.14 2.00 mg/L 5.00 103 80-120

Duplicate (BHJ0259-DUP1)

Source: 2410084-01

Prepared & Analyzed: 10/07/24

Boron 1.01 2.00 mg/L 0.863 15.7 20

Matrix Spike (BHJ0259-MS1)

Source: 2410084-01

Prepared & Analyzed: 10/07/24

Boron 4.92 2.00 mg/L 5.00 0.863 81.2 75-125

Matrix Spike Dup (BHJ0259-MSD1)

Source: 2410084-01

Prepared & Analyzed: 10/07/24

Boron 5.06 2.00 mg/L 5.00 0.863 83.9 75-125 2.71 25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0257 - EPA 3050B

Blank (BHJ0257-BLK1)

Prepared & Analyzed: 10/07/24

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 (BHJ0257-BS1)

Prepared & Analyzed: 10/07/24

Arsenic	37.3	0.200	mg/kg wet	37.9	98.4	80-120
Barium	35.9	0.400	"	37.9	94.9	80-120
Cadmium	1.56	0.200	"	1.89	82.5	80-120
Copper	34.9	0.400	"	37.9	92.1	80-120
Lead	15.8	0.200	"	18.9	83.7	80-120
Nickel	35.2	0.400	"	37.9	92.8	80-120
Silver	1.58	0.0200	"	1.89	83.6	80-120
Zinc	35.9	0.400	"	37.9	94.7	80-120
Selenium	3.85	0.260	"	3.79	102	80-120

Duplicate (BHJ0257-DUP1)

Source: 2410068-01

Prepared & Analyzed: 10/07/24

Arsenic	1.03	0.200	mg/kg dry	1.05	2.08	20
Barium	30.3	0.400	"	31.2	3.05	20
Cadmium	0.0722	0.200	"	0.0733	1.42	20
Copper	2.98	0.400	"	3.08	3.53	20
Lead	6.74	0.200	"	6.97	3.38	20
Nickel	2.94	0.400	"	2.89	1.50	20
Silver	0.0114	0.0200	"	0.0114	0.382	20
Zinc	13.4	0.400	"	13.7	2.36	20
Selenium	ND	0.260	"	ND		20

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Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)

Project Number: UWRCUL-A2002-ABN CO22-124
Project Manager: Paul Henchan

Reported:
10/08/24 14:33

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0257 - EPA 3050B

Matrix Spike (BHJ0257-MS1)

Source: 2410068-01

Prepared & Analyzed: 10/07/24

Arsenic	39.0	0.200	mg/kg dry	39.8	1.05	95.4	75-125			
Barium	65.0	0.400	"	39.8	31.2	85.1	75-125			
Cadmium	1.70	0.200	"	1.99	0.0733	81.8	75-125			
Copper	38.1	0.400	"	39.8	3.08	87.9	75-125			
Lead	25.1	0.200	"	19.9	6.97	91.2	75-125			
Nickel	38.8	0.400	"	39.8	2.89	90.2	75-125			
Silver	1.61	0.0200	"	1.99	0.0114	80.3	75-125			
Zinc	49.7	0.400	"	39.8	13.7	90.4	75-125			
Selenium	3.68	0.260	"	3.98	ND	92.4	75-125			

Matrix Spike Dup (BHJ0257-MSD1)

Source: 2410068-01

Prepared & Analyzed: 10/07/24

Arsenic	38.4	0.200	mg/kg dry	40.4	1.05	92.5	75-125	1.46	25
Barium	65.0	0.400	"	40.4	31.2	83.7	75-125	0.0430	25
Cadmium	1.66	0.200	"	2.02	0.0733	78.4	75-125	2.59	25
Copper	37.4	0.400	"	40.4	3.08	84.9	75-125	1.75	25
Lead	22.9	0.200	"	20.2	6.97	78.7	75-125	9.31	25
Nickel	37.9	0.400	"	40.4	2.89	86.5	75-125	2.39	25
Silver	1.60	0.0200	"	2.02	0.0114	78.7	75-125	0.437	25
Zinc	48.6	0.400	"	40.4	13.7	86.3	75-125	2.26	25
Selenium	3.60	0.260	"	4.04	ND	89.0	75-125	2.24	25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ball Ranch AC 15-65HN (EX)
 Project Number: UWRCUL-A2002-ABN CO22-124
 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHJ0260 - 3060A Mod

Blank (BHJ0260-BLK1)

Prepared & Analyzed: 10/07/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHJ0260-BS1)

Prepared & Analyzed: 10/07/24

Chromium, Hexavalent 25.0 0.30 mg/kg wet 25.0 99.8 80-120

Duplicate (BHJ0260-DUP1)

Source: 2410084-01

Prepared & Analyzed: 10/07/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHJ0260-MS1)

Source: 2410084-01

Prepared & Analyzed: 10/07/24

Chromium, Hexavalent 28.2 0.30 mg/kg dry 31.5 ND 89.6 75-125

Matrix Spike Dup (BHJ0260-MSD1)

Source: 2410084-01

Prepared & Analyzed: 10/07/24

Chromium, Hexavalent 34.0 0.30 mg/kg dry 31.5 ND 108 75-125 18.6 20

Summit Scientific

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

Summit Scientific

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

Batch BHJ0239 - General Preparation

Blank (BHJ0239-BLK1)

Prepared: 10/06/24 Analyzed: 10/07/24

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

LCS (BHJ0239-BS1)

Prepared: 10/06/24 Analyzed: 10/07/24

Calcium	5.79	0.0500	mg/L wet	5.00	116	70-130				
Magnesium	5.31	0.0500	"	5.00	106	70-130				
Sodium	5.23	0.0500	"	5.00	105	70-130				

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

Summit Scientific

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

Batch BHJ0261 - General Preparation


Duplicate (BHJ0261-DUP1)

Source: 2410078-01

Prepared & Analyzed: 10/07/24

% Solids	90.4		%		91.2			0.858		20	
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Summit Scientific



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Reported:
 10/08/24 14:33

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

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

Batch BHJ0241 - General Preparation

Blank (BHJ0241-BLK1)

Prepared: 10/06/24 Analyzed: 10/07/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ0241-BS1)

Prepared: 10/06/24 Analyzed: 10/07/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 104 95-105


Duplicate (BHJ0241-DUP1)

Source: 2410081-48

Prepared: 10/06/24 Analyzed: 10/07/24

Specific Conductance (EC) 0.760 0.0100 mmhos/cm 0.743 2.21 20

Summit Scientific



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 Project Manager: Paul Henchan

Reported:
 10/08/24 14:33

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

Summit Scientific

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

Batch BHJ0242 - General Preparation

LCS (BHJ0242-BS1)

Prepared: 10/06/24 Analyzed: 10/07/24

pH 9.28 pH Units 9.18 101 95-105

Duplicate (BHJ0242-DUP1)

Source: 2410081-48

Prepared: 10/06/24 Analyzed: 10/07/24

pH 8.35 pH Units 8.41 0.716 20

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Notes and Definitions

- S-04 A sample matrix effect prevented complete surrogate recovery.
- 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-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference