

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

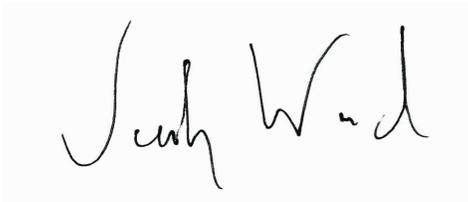
303.277.9310

November 25, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Barton C 15-29
Work Order #2410613

Enclosed are the results of analyses for samples received by Summit Scientific on 10/31/24 16:50. 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 blue ink color.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL02 3 FT	2410613-01	Soil	10/31/24 00:00	10/31/24 16:50
FL03 3 FT	2410613-02	Soil	10/31/24 00:00	10/31/24 16:50
FL04 3 FT	2410613-03	Soil	10/31/24 00:00	10/31/24 16:50
BKG 1-0.5 FT	2410613-04	Soil	10/31/24 00:00	10/31/24 16:50
FL06 3 FT	2410613-05	Soil	10/31/24 00:00	10/31/24 16:50
FL07 3 FT	2410613-06	Soil	10/31/24 00:00	10/31/24 16:50
BKG 1 3FT	2410613-07	Soil	10/31/24 00:00	10/31/24 16:50
BKG 2 3FT	2410613-08	Soil	10/31/24 00:00	10/31/24 16:50
BKG 3 4FT	2410613-09	Soil	10/31/24 00:00	10/31/24 16:50
BKG 4 3FT	2410613-10	Soil	10/31/24 00:00	10/31/24 16:50
BKG 5 5FT	2410613-11	Soil	10/31/24 00:00	10/31/24 16:50
BKG 2-0.5 FT	2410613-12	Soil	10/31/24 00:00	10/31/24 16:50
BKG 3-0.5 FT	2410613-13	Soil	10/31/24 00:00	10/31/24 16:50
BKG 4-0.5 FT	2410613-14	Soil	10/31/24 00:00	10/31/24 16:50
BKG 5-0.5 FT	2410613-15	Soil	10/31/24 00:00	10/31/24 16:50

Summit Scientific

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2410613

Send Data To:		Send Invoice To:
Client: Fremont Environmental		Company: Chevron
Address: 8305 6th St.		Project Name/Location:
City/State/Zip: Wellington, CO		AFE#:
Phone: 83-514-7730		PO/Billing Codes: UWRWE-2428-ABN
Project Name: Noble - Barton C 15-29		Contact: Dan Peterson
Project Number: C023-263		
Sampler Name: Josh Belonger		

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions					
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1 (Soil)	Full Table 915-1 (GW)	NBTEX, TMBS	TPH (C6-C36)	PAHs	SAR, EC,pH, Boron	Table 915-1 Metals	TDS, Chloride, Sulfate						
1	FL02 3 Ft	10/31		2			X			X			X													
2	FL03 3 Ft			2			X			X			X													
3	FL04 3 Ft			2			X			X			X													
4	FL05 3 Ft BKG1-0.5Ft			2			X			X			X					X	X							
5	FL06 3 Ft			2			X			X			X													
6	FL07 3 Ft			2			X			X			X													
7	BKG 1 3 Ft			2			X			X								X	X							
8	BKG 2 3 Ft			2			X			X								X	X							
9	BKG 3 4 Ft			2			X			X								X	X							
10	BKG 4 3 Ft			2			X			X								X	X							
11	BKG 5 5 Ft			2			X			X								X	X							
12	BKG2-0.5 Ft			2			X			X								X	X							
13	BKG3-0.5 Ft			2			X			X								X	X							
14	BKG4-0.5 Ft			2			X			X								X	X							
15	BKG5-0.5 Ft			2			X			X								X	X							

Relinquished by:	Date/Time: 10/31 1400	Received by: Summit North	Date/Time: 10/31 1400	TAT Business Days	Field DO
Relinquished by:	Date/Time: 10/31 24 1630	Received by:	Date/Time: 10/31 24 1630	Same Day	Field EC
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP
				2 Days	Field pH
				3 Days	Field Temp.
				Standard	Field Turb.
Temperature Upon Receipt: 5.7	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:		

Notes:
Dist. Report to parties circled in the email line(s) only.

S₂

Sample Receipt Checklist

S2 Work Order# 2410613

Client: Tremont Client Project ID: Noble-Barton C19-29

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

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

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OUTSIDE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input type="checkbox"/>	<input checked="" 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

10/31/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL02 3 FT
2410613-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0214	11/05/24	11/06/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0409	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0216	11/05/24	11/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.19	73.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL02 3 FT
2410613-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0183	11/05/24	11/05/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0204	61.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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2410613-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.45	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	186	0.400	"	"	"	"	"	"	
Cadmium	0.351	0.200	"	"	"	"	"	"	
Copper	20.1	0.400	"	"	"	"	"	"	
Lead	14.6	0.200	"	"	"	"	"	"	
Nickel	3.55	0.400	"	"	"	"	"	"	
Silver	0.0631	0.0200	"	"	"	"	"	"	
Zinc	74.9	0.400	"	"	"	"	"	"	
Selenium	0.352	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.0	0.0500	mg/L dry	1	BHK0500	11/11/24	11/13/24	EPA 6020B	
Magnesium	25.6	0.0500	"	"	"	"	"	"	
Sodium	224	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.46	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 11/25/24 10:02

FL02 3 FT
2410613-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	76.1	%	1	BHK0277	11/06/24	11/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.17	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Reported:
 11/25/24 10:02

FL03 3 FT
2410613-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0214	11/05/24	11/06/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0216	11/05/24	11/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.5	91.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0183	11/05/24	11/05/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0234	70.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0242	72.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11/25/24 10:02

FL03 3 FT
2410613-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.32	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B
Barium	202	0.400	"	"	"	"	"	"
Cadmium	0.211	0.200	"	"	"	"	"	"
Copper	17.9	0.400	"	"	"	"	"	"
Lead	10.4	0.200	"	"	"	"	"	"
Nickel	2.40	0.400	"	"	"	"	"	"
Silver	0.0630	0.0200	"	"	"	"	"	"
Zinc	64.6	0.400	"	"	"	"	"	"
Selenium	0.562	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	248	0.0500	mg/L dry	1	BHK0500	11/11/24	11/13/24	EPA 6020B	
Magnesium	41.3	0.0500	"	"	"	"	"	"	
Sodium	300	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.65	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
 11/25/24 10:02

FL03 3 FT
2410613-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	74.5	%	1	BHK0277	11/06/24	11/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.99	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL04 3 FT
2410613-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0214	11/05/24	11/06/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0431	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0216	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.08	72.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL04 3 FT
2410613-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0183	11/05/24	11/05/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0157	47.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	3.72	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

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

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL04 3 FT
2410613-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.66	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	196	0.400	"	"	"	"	"	"	
Cadmium	0.287	0.200	"	"	"	"	"	"	
Copper	24.6	0.400	"	"	"	"	"	"	
Lead	13.9	0.200	"	"	"	"	"	"	
Nickel	2.83	0.400	"	"	"	"	"	"	
Silver	0.0986	0.0200	"	"	"	"	"	"	
Zinc	80.7	0.400	"	"	"	"	"	"	
Selenium	0.632	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.3	0.0500	mg/L dry	1	BHK0500	11/11/24	11/13/24	EPA 6020B	
Magnesium	26.8	0.0500	"	"	"	"	"	"	
Sodium	284	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.07	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

FL04 3 FT
2410613-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	67.2	%	1	BHK0277	11/06/24	11/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.28	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 1-0.5 FT
2410613-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	6.68	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.17	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	133	0.400	"	"	"	"	"	"	
Cadmium	0.252	0.200	"	"	"	"	"	"	
Copper	14.8	0.400	"	"	"	"	"	"	
Lead	10.3	0.200	"	"	"	"	"	"	
Nickel	2.42	0.400	"	"	"	"	"	"	
Silver	0.0669	0.0200	"	"	"	"	"	"	
Zinc	55.7	0.400	"	"	"	"	"	"	
Selenium	0.458	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	103	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	16.6	0.0500	"	"	"	"	"	"	
Sodium	199	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 1-0.5 FT
2410613-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.80	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.22	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL06 3 FT
2410613-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0214	11/05/24	11/06/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0406	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0216	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.4	91.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL06 3 FT
2410613-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0183	11/05/24	11/05/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0135	40.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL06 3 FT
2410613-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.45	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	141	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	15.0	0.400	"	"	"	"	"	"	
Lead	8.93	0.200	"	"	"	"	"	"	
Nickel	2.40	0.400	"	"	"	"	"	"	
Silver	0.0507	0.0200	"	"	"	"	"	"	
Zinc	51.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.5	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	10.7	0.0500	"	"	"	"	"	"	
Sodium	80.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.77	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

FL06 3 FT
2410613-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	74.0		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.531	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

Summit Scientific



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Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

FL07 3 FT
2410613-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0214	11/05/24	11/07/24	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: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0411	103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	95.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0216	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.3	82.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL07 3 FT
2410613-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0183	11/05/24	11/06/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 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 - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL07 3 FT
2410613-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.39	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	226	0.400	"	"	"	"	"	"	
Cadmium	0.231	0.200	"	"	"	"	"	"	
Copper	18.4	0.400	"	"	"	"	"	"	
Lead	11.0	0.200	"	"	"	"	"	"	
Nickel	2.59	0.400	"	"	"	"	"	"	
Silver	0.0746	0.0200	"	"	"	"	"	"	
Zinc	58.3	0.400	"	"	"	"	"	"	
Selenium	0.430	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.0	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	8.30	0.0500	"	"	"	"	"	"	
Sodium	235	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.9	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/31/24 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
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Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

FL07 3 FT
2410613-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	71.4	%	1	BHK0277	11/06/24	11/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.873	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.93		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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PO Box 1289
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Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 1 3FT
2410613-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.85	0.200		mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	110	0.400		"	"	"	"	"	"	
Cadmium	0.232	0.200		"	"	"	"	"	"	
Copper	18.4	0.400		"	"	"	"	"	"	
Lead	10.9	0.200		"	"	"	"	"	"	
Nickel	2.63	0.400		"	"	"	"	"	"	
Silver	0.0748	0.0200		"	"	"	"	"	"	
Zinc	64.0	0.400		"	"	"	"	"	"	
Selenium	0.307	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	130	0.0500		mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	27.1	0.0500		"	"	"	"	"	"	
Sodium	179	0.0500		"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 1 3FT
2410613-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.73	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.8		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.22	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 2 3FT
2410613-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.81	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	79.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.94	0.400	"	"	"	"	"	"	
Lead	6.72	0.200	"	"	"	"	"	"	
Nickel	1.94	0.400	"	"	"	"	"	"	
Silver	0.0448	0.0200	"	"	"	"	"	"	
Zinc	35.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	13.8	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	5.30	0.0500	"	"	"	"	"	"	
Sodium	193	0.0500	"	"	"	"	"	"	

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Fremont Environmental
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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 2 3FT
2410613-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.2	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.8		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.704	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.82		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 3 4FT
2410613-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.16	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	123	0.400	"	"	"	"	"	"	
Cadmium	0.247	0.200	"	"	"	"	"	"	
Copper	16.5	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	2.17	0.400	"	"	"	"	"	"	
Silver	0.0694	0.0200	"	"	"	"	"	"	
Zinc	57.8	0.400	"	"	"	"	"	"	
Selenium	0.501	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	169	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	52.0	0.0500	"	"	"	"	"	"	
Sodium	564	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 3 4FT
2410613-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.73	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.71	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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PO Box 1289
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Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 4 3FT
2410613-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.70	0.200		mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	63.8	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	6.16	0.400		"	"	"	"	"	"	
Lead	5.16	0.200		"	"	"	"	"	"	
Nickel	1.83	0.400		"	"	"	"	"	"	
Silver	0.0240	0.0200		"	"	"	"	"	"	
Zinc	24.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	22.2	0.0500		mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	15.6	0.0500		"	"	"	"	"	"	
Sodium	107	0.0500		"	"	"	"	"	"	

Summit Scientific

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 4 3FT
2410613-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.26	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.3		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.536	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 5 5FT
2410613-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.79	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	213	0.400	"	"	"	"	"	"	
Cadmium	0.384	0.200	"	"	"	"	"	"	
Copper	17.5	0.400	"	"	"	"	"	"	
Lead	11.8	0.200	"	"	"	"	"	"	
Nickel	3.18	0.400	"	"	"	"	"	"	
Silver	0.0925	0.0200	"	"	"	"	"	"	
Zinc	78.5	0.400	"	"	"	"	"	"	
Selenium	0.359	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	59.3	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	7.50	0.0500	"	"	"	"	"	"	
Sodium	162	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 5 5FT
2410613-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.27	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	72.5		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.615	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.79		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 2-0.5 FT
2410613-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	5.54	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.18	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	189	0.400	"	"	"	"	"	"	
Cadmium	0.220	0.200	"	"	"	"	"	"	
Copper	20.1	0.400	"	"	"	"	"	"	
Lead	11.9	0.200	"	"	"	"	"	"	
Nickel	2.72	0.400	"	"	"	"	"	"	
Silver	0.0827	0.0200	"	"	"	"	"	"	
Zinc	70.9	0.400	"	"	"	"	"	"	
Selenium	0.532	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	149	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	38.6	0.0500	"	"	"	"	"	"	
Sodium	907	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 2-0.5 FT
2410613-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	17.1	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	72.4		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.21	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 3-0.5 FT
2410613-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.76	0.200		mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	124	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	11.9	0.400		"	"	"	"	"	"	
Lead	8.08	0.200		"	"	"	"	"	"	
Nickel	2.26	0.400		"	"	"	"	"	"	
Silver	0.0562	0.0200		"	"	"	"	"	"	
Zinc	46.6	0.400		"	"	"	"	"	"	
Selenium	0.460	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	61.4	0.0500		mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	22.0	0.0500		"	"	"	"	"	"	
Sodium	480	0.0500		"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

BKG 3-0.5 FT
2410613-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.4	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.85	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 4-0.5 FT
2410613-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	2.68	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.73	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	112	0.400	"	"	"	"	"	"	
Cadmium	0.228	0.200	"	"	"	"	"	"	
Copper	11.6	0.400	"	"	"	"	"	"	
Lead	9.27	0.200	"	"	"	"	"	"	
Nickel	2.20	0.400	"	"	"	"	"	"	
Silver	0.0501	0.0200	"	"	"	"	"	"	
Zinc	43.1	0.400	"	"	"	"	"	"	
Selenium	0.345	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.8	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	27.7	0.0500	"	"	"	"	"	"	
Sodium	219	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
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Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

BKG 4-0.5 FT
2410613-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.71	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.0		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.23	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 5-0.5 FT
2410613-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	2.82	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.75	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	121	0.400	"	"	"	"	"	"	
Cadmium	0.254	0.200	"	"	"	"	"	"	
Copper	17.3	0.400	"	"	"	"	"	"	
Lead	11.4	0.200	"	"	"	"	"	"	
Nickel	2.29	0.400	"	"	"	"	"	"	
Silver	0.0714	0.0200	"	"	"	"	"	"	
Zinc	58.0	0.400	"	"	"	"	"	"	
Selenium	0.455	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.2	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	60.3	0.0500	"	"	"	"	"	"	
Sodium	745	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

BKG 5-0.5 FT
2410613-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	16.5	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.94	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.60		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

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 BHK0214 - EPA 5030 Soil MS

Blank (BHK0214-BLK1)

Prepared & Analyzed: 11/05/24

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>		<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>		<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>		<i>50-150</i>		

LCS (BHK0214-BS1)

Prepared & Analyzed: 11/05/24

Benzene	0.0990	0.0020	mg/kg	0.100		99.0		70-130		
Toluene	0.0966	0.0050	"	0.100		96.6		70-130		
Ethylbenzene	0.0967	0.0050	"	0.100		96.7		70-130		
m,p-Xylene	0.199	0.010	"	0.200		99.4		70-130		
o-Xylene	0.0981	0.0050	"	0.100		98.1		70-130		
1,2,4-Trimethylbenzene	0.0959	0.0050	"	0.100		95.9		70-130		
1,3,5-Trimethylbenzene	0.0980	0.0050	"	0.100		98.0		70-130		
Naphthalene	0.0889	0.0038	"	0.100		88.9		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>		<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>		<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.6</i>		<i>50-150</i>		

Matrix Spike (BHK0214-MS1)

Source: 2410308-01

Prepared & Analyzed: 11/05/24

Benzene	0.0977	0.0020	mg/kg	0.100	ND	97.7		70-130		
Toluene	0.0963	0.0050	"	0.100	ND	96.3		70-130		
Ethylbenzene	0.0940	0.0050	"	0.100	ND	94.0		70-130		
m,p-Xylene	0.192	0.010	"	0.200	ND	96.0		70-130		
o-Xylene	0.0932	0.0050	"	0.100	ND	93.2		70-130		
1,2,4-Trimethylbenzene	0.0896	0.0050	"	0.100	ND	89.6		70-130		
1,3,5-Trimethylbenzene	0.0912	0.0050	"	0.100	ND	91.2		70-130		
Naphthalene	0.0862	0.0038	"	0.100	ND	86.2		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>		<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.5</i>		<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.5</i>		<i>50-150</i>		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

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 BHK0214 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0214-MSD1)	Source: 2410308-01			Prepared & Analyzed: 11/05/24						
Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130	5.03	30	
Toluene	0.100	0.0050	"	0.100	ND	100	70-130	4.15	30	
Ethylbenzene	0.0969	0.0050	"	0.100	ND	96.9	70-130	3.02	30	
m,p-Xylene	0.197	0.010	"	0.200	ND	98.5	70-130	2.56	30	
o-Xylene	0.0963	0.0050	"	0.100	ND	96.3	70-130	3.20	30	
1,2,4-Trimethylbenzene	0.0900	0.0050	"	0.100	ND	90.0	70-130	0.401	30	
1,3,5-Trimethylbenzene	0.0925	0.0050	"	0.100	ND	92.5	70-130	1.37	30	
Naphthalene	0.0845	0.0038	"	0.100	ND	84.5	70-130	1.93	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.4</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHK0216 - EPA 3550A

Blank (BHK0216-BLK1)

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.6		"	12.5	101	30-150					

LCS (BHK0216-BS1)

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	539	50	mg/kg	500	108	70-130					
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5	95.1	30-150					

Matrix Spike (BHK0216-MS1)

Source: 2410308-01

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	528	50	mg/kg	500	17.5	102	70-130				
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5	99.7	30-150					

Matrix Spike Dup (BHK0216-MSD1)

Source: 2410308-01

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	561	50	mg/kg	500	17.5	109	70-130	6.18	20		
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5	91.8	30-150					

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

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 BHK0183 - EPA 5030 Soil MS

Blank (BHK0183-BLK1)

Prepared & Analyzed: 11/05/24

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>0.0224</i>		<i>"</i>	<i>0.0333</i>		<i>67.1</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0213</i>		<i>"</i>	<i>0.0333</i>		<i>63.8</i>	<i>40-140</i>			

LCS (BHK0183-BS1)

Prepared & Analyzed: 11/05/24

Acenaphthene	0.0237	0.00500	mg/kg	0.0333		71.1	40-140			
Anthracene	0.0244	0.00500	"	0.0333		73.3	40-140			
Benzo (a) anthracene	0.0249	0.00500	"	0.0333		74.7	40-140			
Benzo (a) pyrene	0.0235	0.00500	"	0.0333		70.4	40-140			
Benzo (b) fluoranthene	0.0230	0.00500	"	0.0333		69.0	40-140			
Benzo (k) fluoranthene	0.0221	0.00500	"	0.0333		66.2	40-140			
Chrysene	0.0251	0.00500	"	0.0333		75.4	40-140			
Dibenz (a,h) anthracene	0.0217	0.00500	"	0.0333		65.1	40-140			
Fluoranthene	0.0240	0.00500	"	0.0333		72.1	40-140			
Fluorene	0.0244	0.00500	"	0.0333		73.2	40-140			
Indeno (1,2,3-cd) pyrene	0.0224	0.00500	"	0.0333		67.2	40-140			
Pyrene	0.0279	0.00500	"	0.0333		83.7	40-140			
1-Methylnaphthalene	0.0227	0.00500	"	0.0333		68.2	40-140			
2-Methylnaphthalene	0.0259	0.00500	"	0.0333		77.8	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0232</i>		<i>"</i>	<i>0.0333</i>		<i>69.5</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0244</i>		<i>"</i>	<i>0.0333</i>		<i>73.2</i>	<i>40-140</i>			

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

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 BHK0183 - EPA 5030 Soil MS

Matrix Spike (BHK0183-MS1)	Source: 2410611-01			Prepared & Analyzed: 11/05/24				QM-01
Acenaphthene	0.0402	0.00500	mg/kg	0.0333	0.0368	10.3	40-140	QM-05
Anthracene	0.0220	0.00500	"	0.0333	ND	65.9	40-140	
Benzo (a) anthracene	0.0230	0.00500	"	0.0333	ND	68.9	40-140	
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.9	40-140	
Benzo (b) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	40-140	
Benzo (k) fluoranthene	0.0150	0.00500	"	0.0333	ND	44.9	40-140	
Chrysene	0.0282	0.00500	"	0.0333	0.00717	63.0	40-140	
Dibenz (a,h) anthracene	0.0206	0.00500	"	0.0333	ND	61.8	40-140	
Fluoranthene	0.0200	0.00500	"	0.0333	0.00668	40.1	40-140	
Fluorene	0.0468	0.00500	"	0.0333	0.0431	11.3	40-140	QM-05
Indeno (1,2,3-cd) pyrene	0.0204	0.00500	"	0.0333	ND	61.1	40-140	
Pyrene	0.0249	0.00500	"	0.0333	0.00696	53.8	40-140	
1-Methylnaphthalene	3.00	0.00500	"	0.0333	0.394	NR	40-140	QM-4X
2-Methylnaphthalene	4.84	0.00500	"	0.0333	0.945	NR	40-140	QM-4X
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0554</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>166</i>	<i>40-140</i>	<i>QM-05</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0162</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>48.6</i>	<i>40-140</i>	

Matrix Spike Dup (BHK0183-MSD1)	Source: 2410611-01			Prepared & Analyzed: 11/05/24				QM-01		
Acenaphthene	0.0424	0.00500	mg/kg	0.0333	0.0368	16.7	40-140	5.17	30	QM-05
Anthracene	0.0206	0.00500	"	0.0333	ND	61.9	40-140	6.25	30	
Benzo (a) anthracene	0.0238	0.00500	"	0.0333	ND	71.2	40-140	3.29	30	
Benzo (a) pyrene	0.0198	0.00500	"	0.0333	ND	59.3	40-140	5.89	30	
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	40-140	15.5	30	
Benzo (k) fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	40-140	13.2	30	
Chrysene	0.0305	0.00500	"	0.0333	0.00717	70.0	40-140	8.00	30	
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.6	40-140	8.71	30	
Fluoranthene	0.0195	0.00500	"	0.0333	0.00668	38.6	40-140	2.54	30	QM-05
Fluorene	0.0498	0.00500	"	0.0333	0.0431	20.3	40-140	6.25	30	QM-05
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333	ND	67.5	40-140	9.92	30	
Pyrene	0.0279	0.00500	"	0.0333	0.00696	62.7	40-140	11.3	30	
1-Methylnaphthalene	1.78	0.00500	"	0.0333	0.394	NR	40-140	51.0	30	QM-4X
2-Methylnaphthalene	3.27	0.00500	"	0.0333	0.945	NR	40-140	38.7	30	QM-4X
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0368</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>110</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0147</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>44.2</i>	<i>40-140</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

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 BHK0404 - EPA 3050B

Blank (BHK0404-BLK1)

Prepared: 11/08/24 Analyzed: 11/12/24

Boron ND 2.00 mg/L

LCS (BHK0404-BS1)

Prepared: 11/08/24 Analyzed: 11/12/24

Boron 5.09 2.00 mg/L 5.00 102 80-120

Duplicate (BHK0404-DUP1)

Source: 2410611-01

Prepared: 11/08/24 Analyzed: 11/12/24

Boron 0.0979 2.00 mg/L 0.127 25.6 20 QR-01

Matrix Spike (BHK0404-MS1)

Source: 2410611-01

Prepared: 11/08/24 Analyzed: 11/12/24

Boron 5.11 2.00 mg/L 5.00 0.127 99.7 75-125

Matrix Spike Dup (BHK0404-MSD1)

Source: 2410611-01

Prepared: 11/08/24 Analyzed: 11/12/24

Boron 5.27 2.00 mg/L 5.00 0.127 103 75-125 3.03 25

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PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHK0619 - EPA 3050B

Blank (BHK0619-BLK1)

Prepared: 11/13/24 Analyzed: 11/21/24

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 (BHK0619-BS1)

Prepared: 11/13/24 Analyzed: 11/21/24

Arsenic	41.9	0.200	mg/kg wet	41.3	101	80-120				
Barium	47.7	0.400	"	41.3	115	80-120				
Cadmium	2.28	0.200	"	2.07	111	80-120				
Copper	43.4	0.400	"	41.3	105	80-120				
Lead	22.5	0.200	"	20.7	109	80-120				
Nickel	42.6	0.400	"	41.3	103	80-120				
Silver	1.77	0.0200	"	2.07	85.8	80-120				
Zinc	42.7	0.400	"	41.3	103	80-120				
Selenium	4.39	0.260	"	4.13	106	80-120				

Duplicate (BHK0619-DUP1)

Source: 2410613-01

Prepared: 11/13/24 Analyzed: 11/21/24

Arsenic	6.98	0.200	mg/kg dry	7.45	6.54	20				
Barium	105	0.400	"	186	55.9	20				QR-04
Cadmium	0.283	0.200	"	0.351	21.4	20				QR-01
Copper	14.6	0.400	"	20.1	31.6	20				QR-04
Lead	9.83	0.200	"	14.6	39.1	20				QR-04
Nickel	2.91	0.400	"	3.55	19.9	20				
Silver	0.0581	0.0200	"	0.0631	8.10	20				
Zinc	55.2	0.400	"	74.9	30.4	20				QR-04
Selenium	0.419	0.260	"	0.352	17.3	20				

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Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

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 BHK0619 - EPA 3050B

Matrix Spike (BHK0619-MS1)

Source: 2410613-01

Prepared: 11/13/24 Analyzed: 11/21/24

Arsenic	59.8	0.200	mg/kg dry	50.5	7.45	104	75-125			
Barium	200	0.400	"	50.5	186	26.3	75-125			QM-05
Cadmium	2.93	0.200	"	2.53	0.351	102	75-125			
Copper	72.1	0.400	"	50.5	20.1	103	75-125			
Lead	34.7	0.200	"	25.3	14.6	79.6	75-125			
Nickel	12.4	0.400	"	50.5	3.55	17.6	75-125			QM-05
Silver	0.199	0.0200	"	2.53	0.0631	5.36	75-125			QM-05
Zinc	125	0.400	"	50.5	74.9	100	75-125			
Selenium	5.16	0.260	"	5.05	0.352	95.2	75-125			

Matrix Spike Dup (BHK0619-MSD1)

Source: 2410613-01

Prepared: 11/13/24 Analyzed: 11/21/24

Arsenic	60.1	0.200	mg/kg dry	53.4	7.45	98.6	75-125	0.552	25	
Barium	238	0.400	"	53.4	186	96.3	75-125	17.4	25	
Cadmium	2.81	0.200	"	2.67	0.351	92.0	75-125	4.28	25	
Copper	74.9	0.400	"	53.4	20.1	103	75-125	3.76	25	
Lead	37.8	0.200	"	26.7	14.6	87.0	75-125	8.57	25	
Nickel	13.8	0.400	"	53.4	3.55	19.2	75-125	10.6	25	QM-05
Silver	0.180	0.0200	"	2.67	0.0631	4.38	75-125	9.83	25	QM-05
Zinc	133	0.400	"	53.4	74.9	109	75-125	6.01	25	
Selenium	5.10	0.260	"	5.34	0.352	88.9	75-125	1.29	25	

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Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHK0661 - 3060A Mod

Blank (BHK0661-BLK1)

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHK0661-BS1)

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHK0661-DUP1)

Source: 2410611-01

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHK0661-MS1)

Source: 2410611-01

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent 25.7 0.30 mg/kg dry 25.9 ND 99.2 75-125

Matrix Spike Dup (BHK0661-MSD1)

Source: 2410611-01

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent 25.8 0.30 mg/kg dry 25.9 ND 99.6 75-125 0.402 20

Summit Scientific

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 PO Box 1289
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Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

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 BHK0500 - General Preparation

Blank (BHK0500-BLK1)

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

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

LCS (BHK0500-BS1)

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

Calcium	5.92	0.0500	mg/L wet	5.00		118	70-130			
Magnesium	5.13	0.0500	"	5.00		103	70-130			
Sodium	5.15	0.0500	"	5.00		103	70-130			

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Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

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

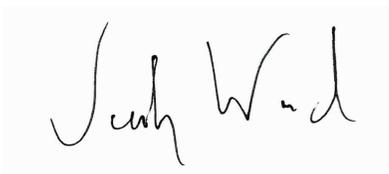
Summit Scientific

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

Batch BHK0277 - General Preparation

Duplicate (BHK0277-DUP1)	Source: 2410611-01		Prepared: 11/06/24 Analyzed: 11/07/24	
% Solids	96.4	%	96.4	0.0804 20

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Project: Noble - Barton C 15-29
 Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

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 BHK0523 - General Preparation

Blank (BHK0523-BLK1)

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

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHK0523-BS1)

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

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

Duplicate (BHK0523-DUP1)

Source: 2410613-01

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

Specific Conductance (EC) 1.12 0.0100 mmhos/cm 1.17 4.11 20

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
 Project Manager: Paul Henchan

Reported:
 11/25/24 10:02

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 BHK0524 - General Preparation

LCS (BHK0524-BS1)

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

pH	9.21	pH Units	9.18	100	95-105
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Duplicate (BHK0524-DUP1)

Source: 2410613-01

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

pH	8.42	pH Units	8.25	2.04	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

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Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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