

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 23, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Beeler 22-12, 13

Work Order #2301274

Enclosed are the results of analyses for samples received by Summit Scientific on 01/16/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B02@7.5'	2301274-01	Soil	01/16/23 00:00	01/16/23 16:30
NW02@6.0'	2301274-02	Soil	01/16/23 00:00	01/16/23 16:30
SE02@6.0'	2301274-03	Soil	01/16/23 00:00	01/16/23 16:30
SW01@6.0'	2301274-04	Soil	01/16/23 00:00	01/16/23 16:30
BKG01@7.0	2301274-05	Soil	01/16/23 00:00	01/16/23 16:30

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

2301274

Summit Scientific

S₂

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

Page 1 of 1

Client: Fremont EnvProject Manager: Paul Henenan

Address:

E-Mail: Paulh@Fremontenv.com jeffg@Fremontenv.com

City/State/Zip:

Ethanb@Fremontenv.com

Phone:

Project Name: Beeler 22-12,13Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	GR0, PRO, PRO	PAHs (915)	EC, PH, SAR Boron	Metals (915)		
1	B02@7.5'	01/16/23		2			X			X				X	X	X	X	X		
2	NW02@6.0'	↓		1			↓			↓				↓	↓	↓	↓	↓		
3	SE02@6.0'	↓		1			↓			↓				↓	↓	↓	↓	↓		
4	SW01@6.0'	↓		2			↓			↓				X	X	X	X	↓		
5	BK601@7.0'	↓		1			↓			↓							X	X		
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>01/16/23</u>	Received by: <u>SZ</u>	Date/Time: <u>1/16/23</u>	Turn Around Time (Check)	Notes: <u>Bill to Noble</u>
Relinquished by: <u>SZ</u>	Date/Time: <u>1/16/23</u> <u>1030</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/16/23</u> <u>1030</u>	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
				48 hours <u>—</u>	
Temperature Upon Receipt: <u>8.6</u>		Corrected Temperature <u>—</u>		HNO ₃ lot # <u>—</u>	Sample Integrity: Samples Intact: <u>Yes</u> No
IR gun correction: <u>—</u>		IR gun #: <u>1</u>			

S₂

Sample Receipt Checklist

S2 Work Order# 2301274Client: FrenchClient Project ID: Becker 22-12,13Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #:
☐ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air ☐Soil/Solid ☒Water ☐Other ☐

Temp (°C)

8.6

Thermometer #

1

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

Custodian Printed Name

Date/Time

1-16-23



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

B02@7.5'
2301274-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGA0370	01/16/23	01/17/23	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: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0531	133 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0375	93.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0371	01/16/23	01/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.9	111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henehan

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B02@7.5'
2301274-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGA0373	01/17/23	01/17/23	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: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0169	50.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0201	60.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.689	0.0100	mg/L	1	BGA0386	01/17/23	01/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

B02@7.5'
2301274-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.69	0.240	mg/kg dry	1	BGA0417	01/17/23	01/20/23	EPA 6020B	
Barium	18.6	0.480	"	"	"	"	"	"	
Cadmium	0.0256	0.240	"	"	"	"	"	"	
Copper	5.22	0.480	"	"	"	"	"	"	
Lead	5.90	0.240	"	"	"	"	"	"	
Nickel	6.54	0.480	"	"	"	"	"	"	
Selenium	0.481	0.312	"	"	"	"	"	"	
Silver	0.0174	0.0240	"	"	"	"	"	"	
Zinc	37.1	0.480	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 01/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGA0392	01/17/23	01/17/23	EPA 7196A	

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

Date Sampled: 01/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4.06	0.0600	mg/L dry	1	BGA0372	01/16/23	01/18/23	EPA 6020B	
Magnesium	4.15	0.0600	"	"	"	"	"	"	
Sodium	287	0.0600	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 01/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	23.9	0.00100	units	1	BGA0447	01/18/23	01/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 01/16/23 00:00

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

Reported:
01/23/23 10:15

B02@7.5'
2301274-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.3	%	1	BGA0390	01/17/23	01/17/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.25	0.0100	mmhos/cm	1	BGA0388	01/17/23	01/17/23	EPA 120.1	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BGA0389	01/17/23	01/17/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

NW02@6.0'
2301274-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGA0370	01/16/23	01/17/23	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: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0530	132 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0375	93.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0371	01/16/23	01/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/23 00:00**

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

PAH by EPA Method 8270D SIM

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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

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NW02@6.0'
2301274-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0373	01/17/23	01/17/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0169	50.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0202	60.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.222	0.0100	mg/L	1	BGA0386	01/17/23	01/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/23 00:00**

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

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

NW02@6.0'
2301274-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.31	0.232	mg/kg dry	1	BGA0417	01/17/23	01/20/23	EPA 6020B
Barium	47.4	0.464	"	"	"	"	"	"
Cadmium	0.0364	0.232	"	"	"	"	"	"
Copper	4.99	0.464	"	"	"	"	"	"
Lead	5.92	0.232	"	"	"	"	"	"
Nickel	6.69	0.464	"	"	"	"	"	"
Selenium	0.659	0.302	"	"	"	"	"	"
Silver	0.0183	0.0232	"	"	"	"	"	"
Zinc	33.1	0.464	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGA0392	01/17/23	01/17/23	EPA 7196A	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	458	0.0580	mg/L dry	1	BGA0372	01/16/23	01/18/23	EPA 6020B	
Magnesium	141	0.0580	"	"	"	"	"	"	
Sodium	28.2	0.0580	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.296	0.00100	units	1	BGA0447	01/18/23	01/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/23 00:00**

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

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

NW02@6.0'
2301274-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.2	%	1	BGA0390	01/17/23	01/17/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.87	0.0100	mmhos/cm	1	BGA0388	01/17/23	01/17/23	EPA 120.1	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BGA0389	01/17/23	01/17/23	EPA 9045D	

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PO Box 1289
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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

SE02@6.0'
2301274-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGA0370	01/16/23	01/17/23	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: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0542	135 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0378	94.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0371	01/16/23	01/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.4	98.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

SE02@6.0'
2301274-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGA0373	01/17/23	01/17/23	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: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0226	67.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.229	0.0100	mg/L	1	BGA0386	01/17/23	01/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

SE02@6.0'
2301274-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.38	0.241	mg/kg dry	1	BGA0417	01/17/23	01/20/23	EPA 6020B	
Barium	72.7	0.483	"	"	"	"	"	"	
Cadmium	0.0358	0.241	"	"	"	"	"	"	
Copper	4.03	0.483	"	"	"	"	"	"	
Lead	5.12	0.241	"	"	"	"	"	"	
Nickel	5.79	0.483	"	"	"	"	"	"	
Selenium	0.461	0.314	"	"	"	"	"	"	
Silver	0.0230	0.0241	"	"	"	"	"	"	
Zinc	30.1	0.483	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 01/16/23 00:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGA0392	01/17/23	01/17/23	EPA 7196A	

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

Date Sampled: 01/16/23 00:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	188	0.0603	mg/L dry	1	BGA0372	01/16/23	01/18/23	EPA 6020B	
Magnesium	36.7	0.0603	"	"	"	"	"	"	
Sodium	13.3	0.0603	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 01/16/23 00:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.232	0.00100	units	1	BGA0447	01/18/23	01/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 01/16/23 00:00

Analyte	Result	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 - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

SE02@6.0'
2301274-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.9	%	1	BGA0390	01/17/23	01/17/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.34	0.0100	mmhos/cm	1	BGA0388	01/17/23	01/17/23	EPA 120.1	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BGA0389	01/17/23	01/17/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

SW01@6.0'
2301274-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGA0370	01/16/23	01/17/23	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: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0546	136 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0376	94.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0371	01/16/23	01/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.0	88.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

SW01@6.0'
2301274-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0373	01/17/23	01/17/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0171	51.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0217	65.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0830	0.0100	mg/L	1	BGA0386	01/17/23	01/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/23 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 - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

SW01@6.0'
2301274-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.77	0.234	mg/kg dry	1	BGA0417	01/17/23	01/20/23	EPA 6020B	
Barium	36.1	0.468	"	"	"	"	"	"	
Cadmium	0.0383	0.234	"	"	"	"	"	"	
Copper	4.41	0.468	"	"	"	"	"	"	
Lead	5.48	0.234	"	"	"	"	"	"	
Nickel	6.50	0.468	"	"	"	"	"	"	
Selenium	0.527	0.304	"	"	"	"	"	"	
Silver	0.0214	0.0234	"	"	"	"	"	"	
Zinc	28.9	0.468	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/16/23 00:00**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGA0392	01/17/23	01/17/23	EPA 7196A	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	509	0.0584	mg/L dry	1	BGA0372	01/16/23	01/18/23	EPA 6020B	
Magnesium	79.6	0.0584	"	"	"	"	"	"	
Sodium	22.3	0.0584	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/23 00:00**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.243	0.00100	units	1	BGA0447	01/18/23	01/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/23 00:00**

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

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

SW01@6.0'
2301274-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.6	%	1	BGA0390	01/17/23	01/17/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.70	0.0100	mmhos/cm	1	BGA0388	01/17/23	01/17/23	EPA 120.1	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.49		pH Units	1	BGA0389	01/17/23	01/17/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

BKG01@7.0
2301274-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.558	0.0100	mg/L	1	BGA0386	01/17/23	01/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	6.81	0.216	mg/kg dry	1	BGA0417	01/17/23	01/20/23	EPA 6020B	
Barium	123	0.433	"	"	"	"	"	"	
Cadmium	0.128	0.216	"	"	"	"	"	"	
Copper	11.4	0.433	"	"	"	"	"	"	
Lead	6.14	0.216	"	"	"	"	"	"	
Nickel	47.7	0.433	"	"	"	"	"	"	
Selenium	0.615	0.281	"	"	"	"	"	"	
Silver	0.0275	0.0216	"	"	"	"	"	"	
Zinc	30.4	0.433	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGA0392	01/17/23	01/17/23	EPA 7196A	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	403	0.0541	mg/L dry	1	BGA0372	01/16/23	01/18/23	EPA 6020B	
Magnesium	365	0.0541	"	"	"	"	"	"	
Sodium	313	0.0541	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henehan

Reported:
01/23/23 10:15

BKG01@7.0
2301274-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.72	0.00100	units	1	BGA0447	01/18/23	01/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BGA0390	01/17/23	01/17/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.98	0.0100	mmhos/cm	1	BGA0388	01/17/23	01/17/23	EPA 120.1	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BGA0389	01/17/23	01/17/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGA0370 - EPA 5030 Soil MS

Blank (BGA0370-BLK1)

Prepared: 01/16/23 Analyzed: 01/17/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0527		"	0.0400		132	50-150			
Surrogate: Toluene-d8	0.0378		"	0.0400		94.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

LCS (BGA0370-BS1)

Prepared: 01/16/23 Analyzed: 01/17/23

Benzene	0.0835	0.0020	mg/kg	0.100		83.5	70-130			
Toluene	0.0811	0.0050	"	0.100		81.1	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.204	0.010	"	0.200		102	70-130			
o-Xylene	0.102	0.0050	"	0.100		102	70-130			
1,2,4-Trimethylbenzene	0.0977	0.0050	"	0.100		97.7	70-130			
1,3,5-Trimethylbenzene	0.0958	0.0050	"	0.100		95.8	70-130			
Naphthalene	0.108	0.0038	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0530		"	0.0400		133	50-150			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		95.9	50-150			

Matrix Spike (BGA0370-MS1)

Source: 2301278-01

Prepared: 01/16/23 Analyzed: 01/17/23

Benzene	0.0839	0.0020	mg/kg	0.100	ND	83.9	70-130			
Toluene	0.0828	0.0050	"	0.100	ND	82.8	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.208	0.010	"	0.200	ND	104	70-130			
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130			
1,2,4-Trimethylbenzene	0.0967	0.0050	"	0.100	ND	96.7	70-130			
1,3,5-Trimethylbenzene	0.0936	0.0050	"	0.100	ND	93.6	70-130			
Naphthalene	0.0996	0.0038	"	0.100	ND	99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0539		"	0.0400		135	50-150			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	50-150			

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PO Box 1289
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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGA0370 - EPA 5030 Soil MS

Matrix Spike Dup (BGA0370-MSD1)	Source: 2301278-01			Prepared: 01/16/23 Analyzed: 01/17/23							
Benzene	0.0847	0.0020	mg/kg	0.100	ND	84.7	70-130	0.925	30		
Toluene	0.0842	0.0050	"	0.100	ND	84.2	70-130	1.65	30		
Ethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	5.32	30		
m,p-Xylene	0.242	0.010	"	0.200	ND	121	70-130	15.4	30		
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130	3.56	30		
1,2,4-Trimethylbenzene	0.121	0.0050	"	0.100	ND	121	70-130	22.5	30		
1,3,5-Trimethylbenzene	0.123	0.0050	"	0.100	ND	123	70-130	27.0	30		
Naphthalene	0.123	0.0038	"	0.100	ND	123	70-130	20.7	30		
Surrogate: 1,2-Dichloroethane-d4	0.0560		"	0.0400		140	50-150				
Surrogate: Toluene-d8	0.0379		"	0.0400		94.8	50-150				
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	50-150				

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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGA0371 - EPA 3550A

Blank (BGA0371-BLK1)

Prepared: 01/16/23 Analyzed: 01/17/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	7.96		"	12.5		63.7	30-150			

LCS (BGA0371-BS1)

Prepared: 01/16/23 Analyzed: 01/17/23

C10-C28 (DRO)	415	50	mg/kg	500		83.0	70-130			
Surrogate: o-Terphenyl	7.45		"	12.5		59.6	30-150			

Matrix Spike (BGA0371-MS1)

Source: 2301278-01

Prepared: 01/16/23 Analyzed: 01/17/23

C10-C28 (DRO)	398	50	mg/kg	500	ND	79.6	70-130			
Surrogate: o-Terphenyl	8.16		"	12.5		65.3	30-150			

Matrix Spike Dup (BGA0371-MSD1)

Source: 2301278-01

Prepared: 01/16/23 Analyzed: 01/17/23

C10-C28 (DRO)	423	50	mg/kg	500	ND	84.6	70-130	6.04	20	
Surrogate: o-Terphenyl	7.70		"	12.5		61.6	30-150			

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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGA0373 - EPA 5030 Soil MS

Blank (BGA0373-BLK1)

Prepared & Analyzed: 01/17/23

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0315		"	0.0333		94.5		40-150			
Surrogate: Fluoranthene-d10	0.0349		"	0.0333		105		40-150			

LCS (BGA0373-BS1)

Prepared & Analyzed: 01/17/23

Acenaphthene	0.0375	0.00500	mg/kg	0.0333		112		31-137			
Anthracene	0.0371	0.00500	"	0.0333		111		30-120			
Benzo (a) anthracene	0.0345	0.00500	"	0.0333		104		30-120			
Benzo (a) pyrene	0.0354	0.00500	"	0.0333		106		30-120			
Benzo (b) fluoranthene	0.0363	0.00500	"	0.0333		109		30-120			
Benzo (k) fluoranthene	0.0372	0.00500	"	0.0333		112		30-120			
Chrysene	0.0356	0.00500	"	0.0333		107		30-120			
Dibenz (a,h) anthracene	0.0328	0.00500	"	0.0333		98.5		30-120			
Fluoranthene	0.0318	0.00500	"	0.0333		95.3		30-120			
Fluorene	0.0374	0.00500	"	0.0333		112		30-120			
Indeno (1,2,3-cd) pyrene	0.0354	0.00500	"	0.0333		106		30-120			
Pyrene	0.0264	0.00500	"	0.0333		79.3		35-142			
1-Methylnaphthalene	0.0369	0.00500	"	0.0333		111		35-142			
2-Methylnaphthalene	0.0366	0.00500	"	0.0333		110		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0304		"	0.0333		91.2		40-150			
Surrogate: Fluoranthene-d10	0.0387		"	0.0333		116		40-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGA0373 - EPA 5030 Soil MS

Matrix Spike (BGA0373-MS1)

Source: 2301241-01

Prepared & Analyzed: 01/17/23

Acenaphthene	0.0237	0.00500	mg/kg	0.0333	ND	71.1	31-137			
Anthracene	0.0239	0.00500	"	0.0333	ND	71.6	30-120			
Benzo (a) anthracene	0.0245	0.00500	"	0.0333	ND	73.5	30-120			
Benzo (a) pyrene	0.0249	0.00500	"	0.0333	0.00186	69.0	30-120			
Benzo (b) fluoranthene	0.0262	0.00500	"	0.0333	ND	78.7	30-120			
Benzo (k) fluoranthene	0.0239	0.00500	"	0.0333	0.00206	65.7	30-120			
Chrysene	0.0244	0.00500	"	0.0333	ND	73.2	30-120			
Dibenz (a,h) anthracene	0.0187	0.00500	"	0.0333	ND	56.1	30-120			
Fluoranthene	0.0207	0.00500	"	0.0333	ND	62.0	30-120			
Fluorene	0.0237	0.00500	"	0.0333	ND	71.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0238	0.00500	"	0.0333	0.00197	65.5	30-120			
Pyrene	0.0188	0.00500	"	0.0333	ND	56.3	35-142			
1-Methylnaphthalene	0.0257	0.00500	"	0.0333	ND	77.1	15-130			
2-Methylnaphthalene	0.0273	0.00500	"	0.0333	ND	81.8	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0242		"	0.0333		72.6	40-150			
Surrogate: Fluoranthene-d10	0.0252		"	0.0333		75.5	40-150			

Matrix Spike Dup (BGA0373-MSD1)

Source: 2301241-01

Prepared & Analyzed: 01/17/23

Acenaphthene	0.0236	0.00500	mg/kg	0.0333	ND	70.9	31-137	0.282	30	
Anthracene	0.0233	0.00500	"	0.0333	ND	69.8	30-120	2.54	30	
Benzo (a) anthracene	0.0247	0.00500	"	0.0333	ND	74.1	30-120	0.809	30	
Benzo (a) pyrene	0.0235	0.00500	"	0.0333	0.00186	64.8	30-120	5.71	30	
Benzo (b) fluoranthene	0.0251	0.00500	"	0.0333	ND	75.2	30-120	4.57	30	
Benzo (k) fluoranthene	0.0234	0.00500	"	0.0333	0.00206	64.0	30-120	2.29	30	
Chrysene	0.0244	0.00500	"	0.0333	ND	73.2	30-120	0.0464	30	
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333	ND	55.2	30-120	1.57	30	
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.7	30-120	5.48	30	
Fluorene	0.0237	0.00500	"	0.0333	ND	71.0	30-120	0.186	30	
Indeno (1,2,3-cd) pyrene	0.0229	0.00500	"	0.0333	0.00197	62.8	30-120	3.89	30	
Pyrene	0.0187	0.00500	"	0.0333	ND	56.0	35-142	0.693	30	
1-Methylnaphthalene	0.0242	0.00500	"	0.0333	ND	72.7	15-130	5.89	50	
2-Methylnaphthalene	0.0261	0.00500	"	0.0333	ND	78.2	15-130	4.58	50	
Surrogate: 2-Methylnaphthalene-d10	0.0217		"	0.0333		65.2	40-150			
Surrogate: Fluoranthene-d10	0.0254		"	0.0333		76.3	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

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

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

Batch BGA0386 - EPA 3050B

Blank (BGA0386-BLK1)

Prepared: 01/17/23 Analyzed: 01/20/23

Boron ND 0.0100 mg/L

LCS (BGA0386-BS1)

Prepared: 01/17/23 Analyzed: 01/20/23

Boron 5.83 0.0100 mg/L 5.00 117 80-120

Duplicate (BGA0386-DUP1)

Source: 2301274-01

Prepared: 01/17/23 Analyzed: 01/20/23

Boron 0.709 0.0100 mg/L 0.689 2.76 20

Matrix Spike (BGA0386-MS1)

Source: 2301274-01

Prepared: 01/17/23 Analyzed: 01/20/23

Boron 5.16 0.0100 mg/L 5.00 0.689 89.5 75-125

Matrix Spike Dup (BGA0386-MSD1)

Source: 2301274-01

Prepared: 01/17/23 Analyzed: 01/20/23

Boron 5.08 0.0100 mg/L 5.00 0.689 87.8 75-125 1.64 25

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PO Box 1289
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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGA0417 - EPA 3050B

Blank (BGA0417-BLK1)

Prepared: 01/17/23 Analyzed: 01/20/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	0.108	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BGA0417-BS1)

Prepared: 01/17/23 Analyzed: 01/20/23

Arsenic	47.0	0.200	mg/kg wet	40.0	118	80-120
Barium	42.8	0.400	"	40.0	107	80-120
Cadmium	2.13	0.200	"	2.00	107	80-120
Copper	43.0	0.400	"	40.0	107	80-120
Lead	19.8	0.200	"	20.0	99.1	80-120
Nickel	42.9	0.400	"	40.0	107	80-120
Selenium	4.38	0.260	"	4.00	109	80-120
Silver	2.10	0.0200	"	2.00	105	80-120
Zinc	44.3	0.400	"	40.0	111	80-120

Duplicate (BGA0417-DUP1)

Source: 2301217-06

Prepared: 01/17/23 Analyzed: 01/20/23

Arsenic	0.270	0.208	mg/kg dry	0.399	38.5	20	QR-03
Barium	11.6	0.416	"	14.1	19.7	20	
Cadmium	0.0200	0.208	"	0.0253	23.6	20	QR-01
Copper	1.46	0.416	"	2.37	47.4	20	QR-03
Lead	1.38	0.208	"	2.01	37.3	20	QR-03
Nickel	0.996	0.416	"	1.18	17.1	20	
Selenium	0.187	0.271	"	0.219	16.0	20	
Silver	0.00834	0.0208	"	0.0108	25.3	20	QR-01
Zinc	5.94	0.416	"	7.73	26.2	20	QR-03

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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGA0417 - EPA 3050B

Matrix Spike (BGA0417-MS1)		Source: 2301217-06			Prepared: 01/17/23 Analyzed: 01/20/23					
Arsenic	51.9	0.208	mg/kg dry	41.6	0.399	124	75-125			
Barium	59.4	0.416	"	41.6	14.1	109	75-125			
Cadmium	2.37	0.208	"	2.08	0.0253	113	75-125			
Copper	47.8	0.416	"	41.6	2.37	109	75-125			
Lead	23.0	0.208	"	20.8	2.01	101	75-125			
Nickel	47.8	0.416	"	41.6	1.18	112	75-125			
Selenium	4.97	0.271	"	4.16	0.219	114	75-125			
Silver	2.28	0.0208	"	2.08	0.0108	109	75-125			
Zinc	55.1	0.416	"	41.6	7.73	114	75-125			

Matrix Spike Dup (BGA0417-MSD1)		Source: 2301217-06			Prepared: 01/17/23 Analyzed: 01/20/23					
Arsenic	50.7	0.208	mg/kg dry	41.6	0.399	121	75-125	2.28	25	
Barium	60.7	0.416	"	41.6	14.1	112	75-125	2.20	25	
Cadmium	2.33	0.208	"	2.08	0.0253	111	75-125	1.87	25	
Copper	47.1	0.416	"	41.6	2.37	107	75-125	1.41	25	
Lead	22.6	0.208	"	20.8	2.01	98.7	75-125	1.98	25	
Nickel	47.1	0.416	"	41.6	1.18	110	75-125	1.46	25	
Selenium	4.62	0.271	"	4.16	0.219	106	75-125	7.25	25	
Silver	2.27	0.0208	"	2.08	0.0108	109	75-125	0.483	25	
Zinc	53.5	0.416	"	41.6	7.73	110	75-125	2.85	25	

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PO Box 1289
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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGA0392 - 3060A Mod

Blank (BGA0392-BLK1)

Prepared & Analyzed: 01/17/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGA0392-BS1)

Prepared & Analyzed: 01/17/23

Chromium, Hexavalent 20.8 0.30 mg/kg wet 25.0 83.0 80-120

Duplicate (BGA0392-DUP1)

Source: 2301274-02

Prepared & Analyzed: 01/17/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGA0392-MS1)

Source: 2301274-02

Prepared & Analyzed: 01/17/23

Chromium, Hexavalent 25.4 0.30 mg/kg dry 29.0 ND 87.4 75-125

Matrix Spike Dup (BGA0392-MSD1)

Source: 2301274-02

Prepared & Analyzed: 01/17/23

Chromium, Hexavalent 27.5 0.30 mg/kg dry 29.0 ND 94.8 75-125 8.12 20

Summit Scientific

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PO Box 1289
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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

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

Summit Scientific

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

Batch BGA0372 - General Preparation

Blank (BGA0372-BLK1)

Prepared: 01/16/23 Analyzed: 01/18/23

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

LCS (BGA0372-BS1)

Prepared: 01/16/23 Analyzed: 01/18/23

Calcium	4.82	0.0500	mg/L wet	5.00	96.3	70-130
Magnesium	5.65	0.0500	"	5.00	113	70-130
Sodium	5.78	0.0500	"	5.00	116	70-130

Summit Scientific

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PO Box 1289
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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

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

Summit Scientific

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

Batch BGA0390 - General Preparation

Duplicate (BGA0390-DUP1)

Source: 2301274-01

Prepared & Analyzed: 01/17/23

% Solids	83.0	%	83.3	0.319	20
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PO Box 1289
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Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

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

Summit Scientific

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

Batch BGA0388 - General Preparation

Blank (BGA0388-BLK1)

Prepared & Analyzed: 01/17/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGA0388-BS1)

Prepared & Analyzed: 01/17/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BGA0388-DUP1)

Source: 2301274-01

Prepared & Analyzed: 01/17/23

Specific Conductance (EC) 1.22 0.0100 mmhos/cm 1.25 2.51 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

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

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

Batch BGA0389 - General Preparation

LCS (BGA0389-BS1)

Prepared & Analyzed: 01/17/23

pH	9.15	pH Units	9.18	99.7	95-105
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Duplicate (BGA0389-DUP1)

Source: 2301274-01

Prepared & Analyzed: 01/17/23

pH	8.47	pH Units	8.72	2.91	20
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PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler 22-12, 13

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 10:15

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
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