

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 24, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Parker 29-34

Work Order #2304242

Enclosed are the results of analyses for samples received by Summit Scientific on 04/12/23 12:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@4.0'	2304242-01	Soil	04/10/23 00:00	04/12/23 12:30
FL08@4.0'	2304242-02	Soil	04/10/23 00:00	04/12/23 12:30
FL09@5.0'	2304242-03	Soil	04/10/23 00:00	04/12/23 12:30
FL15@3.5'	2304242-04	Soil	04/10/23 00:00	04/12/23 12:30

Summit Scientific

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

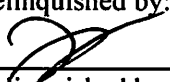

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2304242	

Send Data To:		Send Invoice To:	
Client: Fremont Env	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: Paulh@fremontenv.com	Project Name/Location:	
City/State/Zip:	jeff@fremontenv.com Ethanb@fremontenv.com	AFE#:	
Phone:	Project Name: Parker 29-34	PO/Billing Codes:	
Sampler Name: J6	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX + N	TMBS (915)	DRO,ORO,GRD	PAHS (915)	EC,PH,SAR, BARON	Metals (915)	
1	FLO8@4.0'	04/10/23		2			X			X		X	X	X	X	X			
2	FLO8@4.0'	04/10/23		2			X			X		X	X	X	X	X			
3	FLO9@5.0'	04/12/23		2			X			X		X	X	X	X	X			
4	FL15@3.5'	04/12/23		2			X			X		X	X	X	X	X			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: 	Date/Time: 4/12/23 1231	Received by: 	Date/Time: 4/12/23 12:30	TAT Business Days	Field DO	Notes: Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 20.6	Corrected Temperature	IR gun #: 2	HNO3 lot #:	Standard	X Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2304242

Client: Fremont Client Project ID: Parker 29-34

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

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

Temp (°C) 20.6 Thermometer # Z

	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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

MM
Custodian Printed Name

4/12/23 12:30
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL01@4.0'
2304242-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0463	04/14/23	04/15/23	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: **04/10/23 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	0.0373	93.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0465	04/14/23	04/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.4	115 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL01@4.0'
2304242-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0444	04/14/23	04/14/23	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: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0242	72.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.136	0.0100	mg/L	1	BGD0450	04/14/23	04/22/23	EPA 6020B	

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

Date Sampled: **04/10/23 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 - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL01@4.0'
2304242-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.3	0.0588	mg/L dry	1	BGD0578	04/18/23	04/22/23	EPA 6020B	
Magnesium	17.8	0.0588	"	"	"	"	"	"	
Sodium	57.9	0.0588	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.12	0.00100	units	1	BGD0765	04/24/23	04/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BGD0455	04/14/23	04/14/23	Calculation	

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

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BGD0616	04/19/23	04/19/23	EPA 9045D	

Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.452	0.0100	mmhos/cm	1	BGD0533	04/16/23	04/16/23	EPA 120.1	

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Fremont Environmental
PO Box 1289
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Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL08@4.0'
2304242-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0463	04/14/23	04/15/23	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: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0414	103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0372	93.1 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0465	04/14/23	04/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.5	108 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL08@4.0'
2304242-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0444	04/14/23	04/14/23	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: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0250	74.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	63.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.274	0.0100	mg/L	1	BGD0450	04/14/23	04/22/23	EPA 6020B	

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

Date Sampled: **04/10/23 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 - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL08@4.0'
2304242-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.6	0.0583	mg/L dry	1	BGD0578	04/18/23	04/22/23	EPA 6020B	
Magnesium	11.5	0.0583	"	"	"	"	"	"	
Sodium	94.4	0.0583	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.21	0.00100	units	1	BGD0765	04/24/23	04/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BGD0455	04/14/23	04/14/23	Calculation	

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

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BGD0616	04/19/23	04/19/23	EPA 9045D	

Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.580	0.0100	mmhos/cm	1	BGD0533	04/16/23	04/16/23	EPA 120.1	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL09@5.0'
2304242-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0463	04/14/23	04/15/23	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: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0379	94.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0465	04/14/23	04/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.6	117 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
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Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL09@5.0'
2304242-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0444	04/14/23	04/14/23	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: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0151	45.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.306	0.0100	mg/L	1	BGD0450	04/14/23	04/22/23	EPA 6020B	

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

Date Sampled: **04/10/23 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 - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL09@5.0'
2304242-03 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	88.1	0.0589	mg/L dry	1	BGD0578	04/18/23	04/22/23	EPA 6020B	
Magnesium	35.8	0.0589	"	"	"	"	"	"	
Sodium	175	0.0589	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.97	0.00100	units	1	BGD0765	04/24/23	04/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BGD0455	04/14/23	04/14/23	Calculation	

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

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BGD0616	04/19/23	04/19/23	EPA 9045D	

Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.12	0.0100	mmhos/cm	1	BGD0533	04/16/23	04/16/23	EPA 120.1	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL15@3.5'
2304242-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0463	04/14/23	04/15/23	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: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0377	94.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0465	04/14/23	04/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.3	107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL15@3.5'
2304242-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0444	04/14/23	04/14/23	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: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0164	49.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.168	0.0100	mg/L	1	BGD0450	04/14/23	04/22/23	EPA 6020B	

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

Date Sampled: **04/10/23 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 - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

FL15@3.5'
2304242-04 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.2	0.0583	mg/L dry	1	BGD0578	04/18/23	04/22/23	EPA 6020B	
Magnesium	11.8	0.0583	"	"	"	"	"	"	
Sodium	44.7	0.0583	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.66	0.00100	units	1	BGD0765	04/24/23	04/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BGD0455	04/14/23	04/14/23	Calculation	

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

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BGD0616	04/19/23	04/19/23	EPA 9045D	

Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **04/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.324	0.0100	mmhos/cm	1	BGD0533	04/16/23	04/16/23	EPA 120.1	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

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 BGD0463 - EPA 5030 Soil MS

Blank (BGD0463-BLK1)

Prepared & Analyzed: 04/14/23

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0400		"	0.0400		100	50-150				
<i>Surrogate: Toluene-d8</i>	0.0367		"	0.0400		91.6	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0378		"	0.0400		94.6	50-150				

LCS (BGD0463-BS1)

Prepared & Analyzed: 04/14/23

Benzene	0.111	0.0020	mg/kg	0.125		88.7	70-130				
Toluene	0.143	0.0050	"	0.125		114	70-130				
Ethylbenzene	0.146	0.0050	"	0.125		117	70-130				
m,p-Xylene	0.292	0.010	"	0.250		117	70-130				
o-Xylene	0.139	0.0050	"	0.125		111	70-130				
1,2,4-Trimethylbenzene	0.158	0.0050	"	0.125		126	70-130				
1,3,5-Trimethylbenzene	0.157	0.0050	"	0.125		125	70-130				
Naphthalene	0.154	0.0038	"	0.125		123	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0413		"	0.0400		103	50-150				
<i>Surrogate: Toluene-d8</i>	0.0371		"	0.0400		92.8	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0369		"	0.0400		92.2	50-150				

Matrix Spike (BGD0463-MS1)

Source: 2304218-01

Prepared & Analyzed: 04/14/23

Benzene	0.105	0.0020	mg/kg	0.125	ND	83.8	70-130				
Toluene	0.142	0.0050	"	0.125	ND	114	70-130				
Ethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130				
m,p-Xylene	0.285	0.010	"	0.250	ND	114	70-130				
o-Xylene	0.137	0.0050	"	0.125	ND	110	70-130				
1,2,4-Trimethylbenzene	0.155	0.0050	"	0.125	ND	124	70-130				
1,3,5-Trimethylbenzene	0.152	0.0050	"	0.125	ND	122	70-130				
Naphthalene	0.153	0.0038	"	0.125	ND	123	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0426		"	0.0400		107	50-150				
<i>Surrogate: Toluene-d8</i>	0.0377		"	0.0400		94.4	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0369		"	0.0400		92.2	50-150				

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Fremont Environmental
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Project: Noble - Parker 29-34

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/24/23 16:56

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 BGD0463 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0463-MSD1)	Source: 2304218-01			Prepared & Analyzed: 04/14/23						
Benzene	0.102	0.0020	mg/kg	0.125	ND	81.7	70-130	2.55	30	
Toluene	0.140	0.0050	"	0.125	ND	112	70-130	1.13	30	
Ethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130	0.395	30	
m,p-Xylene	0.290	0.010	"	0.250	ND	116	70-130	1.99	30	
o-Xylene	0.138	0.0050	"	0.125	ND	110	70-130	0.895	30	
1,2,4-Trimethylbenzene	0.159	0.0050	"	0.125	ND	128	70-130	2.63	30	
1,3,5-Trimethylbenzene	0.155	0.0050	"	0.125	ND	124	70-130	1.56	30	
Naphthalene	0.154	0.0038	"	0.125	ND	123	70-130	0.398	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0416</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>93.0</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0366</i>		<i>"</i>	<i>0.0400</i>		<i>91.5</i>	<i>50-150</i>			

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 Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/24/23 16:56

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 BGD0465 - EPA 3550A

Blank (BGD0465-BLK1)

Prepared: 04/14/23 Analyzed: 04/15/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.1		"	12.5		112		30-150			

LCS (BGD0465-BS1)

Prepared: 04/14/23 Analyzed: 04/15/23

C10-C28 (DRO)	394	50	mg/kg	500		78.9		70-130			
Surrogate: <i>o</i> -Terphenyl	10.6		"	12.5		84.8		30-150			

Matrix Spike (BGD0465-MS1)

Source: 2304218-01

Prepared: 04/14/23 Analyzed: 04/15/23

C10-C28 (DRO)	388	50	mg/kg	500	13.7	74.8		70-130			
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5		89.3		30-150			

Matrix Spike Dup (BGD0465-MSD1)

Source: 2304218-01

Prepared: 04/14/23 Analyzed: 04/15/23

C10-C28 (DRO)	395	50	mg/kg	500	13.7	76.2		70-130	1.82	20	
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102		30-150			

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Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

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 BGD0444 - EPA 5030 Soil MS

Blank (BGD0444-BLK1)

Prepared & Analyzed: 04/14/23

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0298		"	0.0333		89.5	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0288		"	0.0333		86.5	40-150			

LCS (BGD0444-BS1)

Prepared & Analyzed: 04/14/23

Acenaphthene	0.0303	0.00500	mg/kg	0.0333		90.9	31-137			
Anthracene	0.0314	0.00500	"	0.0333		94.3	30-120			
Benzo (a) anthracene	0.0239	0.00500	"	0.0333		71.6	30-120			
Benzo (a) pyrene	0.0230	0.00500	"	0.0333		69.0	30-120			
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333		72.8	30-120			
Benzo (k) fluoranthene	0.0229	0.00500	"	0.0333		68.6	30-120			
Chrysene	0.0198	0.00500	"	0.0333		59.4	30-120			
Dibenz (a,h) anthracene	0.0263	0.00500	"	0.0333		78.9	30-120			
Fluoranthene	0.0298	0.00500	"	0.0333		89.4	30-120			
Fluorene	0.0301	0.00500	"	0.0333		90.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0238	0.00500	"	0.0333		71.4	30-120			
Pyrene	0.0252	0.00500	"	0.0333		75.6	35-142			
1-Methylnaphthalene	0.0310	0.00500	"	0.0333		93.1	35-142			
2-Methylnaphthalene	0.0304	0.00500	"	0.0333		91.3	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0328		"	0.0333		98.3	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0314		"	0.0333		94.1	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

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 BGD0444 - EPA 5030 Soil MS

Matrix Spike (BGD0444-MS1)	Source: 2304242-01			Prepared & Analyzed: 04/14/23							
Acenaphthene	0.0165	0.00500	mg/kg	0.0333	ND	49.4	31-137				
Anthracene	0.0176	0.00500	"	0.0333	ND	52.9	30-120				
Benzo (a) anthracene	0.0147	0.00500	"	0.0333	ND	44.1	30-120				
Benzo (a) pyrene	0.0142	0.00500	"	0.0333	ND	42.7	30-120				
Benzo (b) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.4	30-120				
Benzo (k) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.4	30-120				
Chrysene	0.0148	0.00500	"	0.0333	ND	44.3	30-120				
Dibenz (a,h) anthracene	0.0145	0.00500	"	0.0333	ND	43.6	30-120				
Fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	30-120				
Fluorene	0.0168	0.00500	"	0.0333	ND	50.5	30-120				
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.1	30-120				
Pyrene	0.0148	0.00500	"	0.0333	ND	44.3	35-142				
1-Methylnaphthalene	0.0221	0.00500	"	0.0333	ND	66.3	15-130				
2-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0199</i>		<i>"</i>	<i>0.0333</i>		<i>59.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0173</i>		<i>"</i>	<i>0.0333</i>		<i>52.0</i>	<i>40-150</i>				

Matrix Spike Dup (BGD0444-MSD1)	Source: 2304242-01			Prepared & Analyzed: 04/14/23							
Acenaphthene	0.0196	0.00500	mg/kg	0.0333	ND	58.9	31-137	17.5	30		
Anthracene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	14.4	30		
Benzo (a) anthracene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	1.19	30		
Benzo (a) pyrene	0.0151	0.00500	"	0.0333	ND	45.3	30-120	5.91	30		
Benzo (b) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	4.58	30		
Benzo (k) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	0.948	30		
Chrysene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	3.45	30		
Dibenz (a,h) anthracene	0.0142	0.00500	"	0.0333	ND	42.5	30-120	2.61	30		
Fluoranthene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	10.5	30		
Fluorene	0.0197	0.00500	"	0.0333	ND	59.2	30-120	15.9	30		
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333	ND	46.5	30-120	12.4	30		
Pyrene	0.0164	0.00500	"	0.0333	ND	49.3	35-142	10.7	30		
1-Methylnaphthalene	0.0255	0.00500	"	0.0333	ND	76.5	15-130	14.3	50		
2-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.7	15-130	7.91	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0239</i>		<i>"</i>	<i>0.0333</i>		<i>71.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0203</i>		<i>"</i>	<i>0.0333</i>		<i>60.8</i>	<i>40-150</i>				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/24/23 16:56

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 BGD0450 - EPA 3050B

Blank (BGD0450-BLK1)

Prepared: 04/14/23 Analyzed: 04/21/23

Boron ND 0.0100 mg/L

LCS (BGD0450-BS1)

Prepared: 04/14/23 Analyzed: 04/21/23

Boron 5.26 0.0100 mg/L 5.00 105 80-120

Duplicate (BGD0450-DUP1)

Source: 2304218-07

Prepared: 04/14/23 Analyzed: 04/21/23

Boron 0.0852 0.0100 mg/L 0.0891 4.54 20

Matrix Spike (BGD0450-MS1)

Source: 2304218-07

Prepared: 04/14/23 Analyzed: 04/21/23

Boron 5.32 0.0100 mg/L 5.00 0.0891 105 75-125

Matrix Spike Dup (BGD0450-MSD1)

Source: 2304218-07

Prepared: 04/14/23 Analyzed: 04/21/23

Boron 5.33 0.0100 mg/L 5.00 0.0891 105 75-125 0.234 25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/24/23 16:56

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 BGD0578 - General Preparation

Blank (BGD0578-BLK1)

Prepared: 04/18/23 Analyzed: 04/22/23

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

LCS (BGD0578-BS1)

Prepared: 04/18/23 Analyzed: 04/22/23

Calcium	5.31	0.0500	mg/L wet	5.00		106	70-130			
Magnesium	4.75	0.0500	"	5.00		95.0	70-130			
Sodium	4.87	0.0500	"	5.00		97.4	70-130			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/24/23 16:56

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

Summit Scientific

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

Batch BGD0455 - General Preparation

Duplicate (BGD0455-DUP1)

Source: 2304240-01

Prepared & Analyzed: 04/14/23

% Solids	83.7		%		83.2			0.543	20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/24/23 16:56

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

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

Batch BGD0616 - General Preparation

LCS (BGD0616-BS1)

Prepared & Analyzed: 04/19/23

pH 9.11 pH Units 95-105

Duplicate (BGD0616-DUP1)

Source: 2304240-01

Prepared & Analyzed: 04/19/23

pH 7.81 pH Units 7.81 0.00 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/24/23 16:56

Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013 - Quality Control
Summit Scientific

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

Batch BGD0533 - General Preparation

Blank (BGD0533-BLK1)

Prepared & Analyzed: 04/16/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGD0533-BS1)

Prepared & Analyzed: 04/16/23

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.2 95-105

Duplicate (BGD0533-DUP1)

Source: 2304242-01

Prepared & Analyzed: 04/16/23

Specific Conductance (EC) 0.458 0.0100 mmhos/cm 0.452 1.30 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Parker 29-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/24/23 16:56

Notes and Definitions

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