

FREMONT ENVIRONMENTAL INC.

November 9, 2022

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Flowline Closure Data Submittal**
Odle BB 19-11
API # 05-123-15520
NESW Sec. 19, T5N, R63W
Weld County, Colorado
Fremont Project No. C022-103
Remediation #23206

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted facility closure activities for the Noble Energy Inc. (Noble) Odle BB 19-11 flowline. Impacted soil was not encountered during the flowline abandonment. Details of the Odle BB 19-11 flowline closure activities are documented in the attached Closure Report. Groundwater was encountered and unimpacted.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Attachments:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Reports

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
ODLE BB 19-11 , WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-103

Sample	Date Sampled	Depth (ft)	Location	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
FL01 - W Wall 2ft	08/16/2022	2	Wall	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<50	<50
COGCC Table 915-1 Limits (Residential SSL)				1.2	490	5.8	58	30	27	2	500	500	500
COGCC Table 915-1 Limits (Protection of Groundwater SSL)				0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500	500

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
ODLE BB 19-11 , WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-103

Sample	Date Sampled	Depth (ft)	Location	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (a) pyrene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)
FL01 - W Wall 2ft	08/16/2022	2	Wall	0.00990	0.0335	0.0518	0.0423	0.0682	0.0300	0.0558	<0.00500	0.156	0.0155	0.0170	0.109	<0.00500	<0.00500
COGCC Table 915-1 Limits (Residential SSL)				360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)				0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019

Bold faced values exceed the COGCC Table 915-1 concentrations
Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
ODLE BB 19-11 , WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-103

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
FL01 - W Wall 2ft	08/16/2022	2	6.19	7.90	11.6	0.349
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

TABLE 4
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
ODLE BB 19-11 , WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-103

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPHTHALENE (µg/L)	1,2,4 TRIMETHYL- BENZENE (µg/L)	1,3,5 TRIMETHYL- BENZENE (µg/L)
FL01	08/16/2022	<1.0	<1.0	3.3	12	12	1.5	6.0
Table 915-1 Limits		5	560	700	1,400	140	67	67

TABLE 5
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
ODLE BB 19-11 , WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-103

SAMPLE LOCATION	DATE	TOTAL DISSOLVED SOLIDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)
FL01	08/16/2022	1730	124	791
Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background

Bold face values exceed the COGCC limits

NP - No Free Product

NA - Not Analyzed

NAP - Not Applicable

TABLE 6
SUMMARY OF POTHOLE FIELD OBSERVATIONS
NOBLE ENERGY INC.
ODLE BB-19-11, WELD COUNTY, COLORADO
FREMONT PROJECT C022-103

Location	Latitude	Longitude	PID (PPM)	Field Observations
FL01	40.3834595	-104.4817103	152.1	Odor, No staining
FL02	40.383626	-104.4820433	0.1	No suspected impacts.
FL03	40.3838605	-104.4825503	21.5	No suspected impacts.
FL04	40.3840264	-104.4830645	0.6	No suspected impacts.
FL05	40.3842183	-104.484145	7.2	No suspected impacts.
FL06	40.3844318	-104.4851933	13.4	No suspected impacts.
FL07	40.3847423	-104.4862735	0.2	No suspected impacts.

TABLE 7
SUMMARY OF FLOW LINE CONDITION
NOBLE ENERGY INC.
ODLE BB-19-11, WELD COUNTY, COLORADO
FREMONT PROJECT C022-103

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
FL01	FL02	110	2" sch. 80 carbon steel, black, non-ACM taped coating, good condition
FL02	FL03	161	2" sch. 80 carbon steel, black, non-ACM taped coating, good condition
FL03	FL04	153	2" sch. 80 carbon steel, black, non-ACM taped coating, good condition
FL04	FL05	309	2" sch. 80 carbon steel, black, non-ACM taped coating, good condition
FL05	FL06	300	2" sch. 80 carbon steel, black, non-ACM taped coating, good condition
FL06	FL07	318	2" sch. 80 carbon steel, black, non-ACM taped coating, good condition

1351 **Total Linear Feet of Flowline**

Photo Log



Description:



Description:

Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 06, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Odle BB19-11
Work Order #2208304

Enclosed are the results of analyses for samples received by Summit Scientific on 08/22/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST Load Out-Surface	2208304-01	Soil	08/16/22 00:00	08/22/22 16:00
PWV - E Wall 2ft	2208304-02	Soil	08/16/22 00:00	08/22/22 16:00
PWV - Floor 3ft	2208304-03	Soil	08/16/22 00:00	08/22/22 16:00
Sep - E Wall 2ft	2208304-04	Soil	08/16/22 00:00	08/22/22 16:00
FL01 - W Wall 2ft	2208304-05	Soil	08/16/22 00:00	08/22/22 16:00
Sep	2208304-07	Water	08/16/22 00:00	08/22/22 16:00
FL01	2208304-08	Water	08/16/22 00:00	08/22/22 16:00

Summit Scientific

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Summit Scientific

2208304

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

Client: Fremont Environmental

Project Manager: Hendrich

Page 1 of 1

Address:

E-Mail: fremont env dist list (jeffg, paulh, ethanb), chrisl

City/State/Zip:

Bill To: Noble

Phone:

Project Name: Noble - Cde BB 19-11

Sampler Name: Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	VOCs (Q15)	TPH (Q15)	PAHs (Q15)	TDS/Cl/SO4	SAR/EC/PH	BORON		METALS (Q15)		
1	AST LOAD OUT - SURFACE	8/16/22		3			X															
2	PWV - E WALL 2FT			1																		
3	PWV - FLOOR 3FT			1																		
4	SEP - E WALL 2FT			1																		
5	FLO1 - W WALL 2FT			1																		
6	FLO6 - FLOOR 2FT			1																		
7	SEP			4																		
8	FLO1			4																		
9																						
10																						

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>8/16/22</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/22/22</u>	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <u>X</u> 48 hours _____	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Temperature Upon Receipt: <u>8.0</u>	Corrected Temperature: <u>8</u>	HNO3 lot #	Sample Integrity:	Samples Intact: <u>(Yes)</u> No	
IR gun correction: <u>0</u>	IR gun #: <u>1</u>				

S₂

2208304

Sample Receipt Checklist

S2 Work Order#

Client: Fremont Client Project ID: Noble-Adle BB 19-11

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

-

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

Temp (°C) 8.0 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ICE
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?		-		
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			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		-		
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.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	
Additional Comments (if any):				

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

[Signature]
Custodian Printed Name

82222
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

AST Load Out-Surface
2208304-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFH0508	08/24/22	08/25/22	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: **08/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		94.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		118 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		119 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	140	50		mg/kg	1	BFH0509	08/24/22	08/25/22	EPA 8015M	
C28-C36 (ORO)	62	50		"	"	"	"	"	"	

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		58.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

AST Load Out-Surface
2208304-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFH0500	08/24/22	08/25/22	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: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.102	0.0100	mg/L	1	BFH0576	08/26/22	08/27/22	EPA 6020B	

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

Date Sampled: **08/16/22 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 - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

AST Load Out-Surface
2208304-01 (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	33.1	0.0618	mg/L dry	1	BFH0612	08/29/22	08/31/22	EPA 6020B	
Magnesium	6.64	0.0618	"	"	"	"	"	"	
Sodium	3.94	0.0618	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.163	0.00100	units	1	BFH0694	08/31/22	08/31/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BFH0516	08/24/22	08/24/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.249	0.0100	mmhos/cm	1	BFH0647	08/30/22	08/31/22	EPA 120.1	

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

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.44		pH Units	1	BFH0648	08/30/22	08/31/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

PWV - E Wall 2ft
2208304-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFH0508	08/24/22	08/25/22	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	0.070	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	10	0.50	"	"	"	"	"	"	

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		119 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		128 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	59	50	mg/kg	1	BFH0509	08/24/22	08/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		76.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

PWV - E Wall 2ft
2208304-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFH0500	08/24/22	08/25/22	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	0.00926	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0559	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00522	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0473	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	79.3 %	40-150			"	"	"	"	
Surrogate: Fluoranthene-d10	70.0 %	40-150			"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.248	0.0100	mg/L	1	BFH0576	08/26/22	08/27/22	EPA 6020B	

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

Date Sampled: **08/16/22 00:00**

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

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

**PWV - E Wall 2ft
2208304-02 (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	31.6	0.0542	mg/L dry	1	BFH0612	08/29/22	08/31/22	EPA 6020B	
Magnesium	5.21	0.0542	"	"	"	"	"	"	
Sodium	59.2	0.0542	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.57	0.00100	units	1	BFH0694	08/31/22	08/31/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.2		%	1	BFH0516	08/24/22	08/24/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.661	0.0100	mmhos/cm	1	BFH0647	08/30/22	08/31/22	EPA 120.1	

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

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79		pH Units	1	BFH0648	08/30/22	08/31/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

PWV - Floor 3ft
2208304-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFH0508	08/24/22	08/25/22	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: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		118 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFH0509	08/24/22	08/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		74.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

PWV - Floor 3ft
2208304-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFH0500	08/24/22	08/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	0.00992	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	0.0115	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	0.0121	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	0.00536	0.00500	"	"	"	"	"	"	"
Chrysene	0.0111	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	0.0124	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	0.0217	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	64.1 %	40-150			"	"	"	"	
Surrogate: Fluoranthene-d10	61.9 %	40-150			"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.580	0.0100	mg/L	1	BFH0576	08/26/22	08/27/22	EPA 6020B	

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

Date Sampled: **08/16/22 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 - Odle BB19-11

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/06/22 09:29

PWV - Floor 3ft
2208304-03 (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	21.4	0.0610	mg/L dry	1	BFH0612	08/29/22	08/31/22	EPA 6020B	
Magnesium	5.46	0.0610	"	"	"	"	"	"	
Sodium	187	0.0610	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.34	0.00100	units	1	BFH0694	08/31/22	08/31/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.9		%	1	BFH0516	08/24/22	08/24/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.29	0.0100	mmhos/cm	1	BFH0647	08/30/22	08/31/22	EPA 120.1	

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

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BFH0648	08/30/22	08/31/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

Sep - E Wall 2ft
2208304-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFH0508	08/24/22	08/25/22	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: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		118 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFH0509	08/24/22	08/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		76.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

Sep - E Wall 2ft
2208304-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFH0500	08/24/22	08/25/22	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: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		77.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.275	0.0100	mg/L	1	BFH0576	08/26/22	08/27/22	EPA 6020B	

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

Date Sampled: **08/16/22 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 - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

Sep - E Wall 2ft
2208304-04 (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	46.8	0.0629	mg/L dry	1	BFH0612	08/29/22	08/31/22	EPA 6020B	
Magnesium	21.1	0.0629	"	"	"	"	"	"	
Sodium	58.8	0.0629	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.79	0.00100	units	1	BFH0694	08/31/22	08/31/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.5		%	1	BFH0516	08/24/22	08/24/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.832	0.0100	mmhos/cm	1	BFH0647	08/30/22	08/31/22	EPA 120.1	

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

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.36		pH Units	1	BFH0648	08/30/22	08/31/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

FL01 - W Wall 2ft
2208304-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFH0508	08/24/22	08/25/22	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: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		122 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		121 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFH0509	08/24/22	08/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		65.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

FL01 - W Wall 2ft
2208304-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00990	0.00500	mg/kg	1	BFH0500	08/24/22	08/25/22	EPA 8270D SIM	
Anthracene	0.0335	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0518	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0423	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0682	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0300	0.00500	"	"	"	"	"	"	
Chrysene	0.0558	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.156	0.00500	"	"	"	"	"	"	
Fluorene	0.0155	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	"	"	"	"	"	
Pyrene	0.109	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		66.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.349	0.0100	mg/L	1	BFH0576	08/26/22	08/27/22	EPA 6020B	

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

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	162	0.0598	mg/L dry	1	BFH0612	08/29/22	08/31/22	EPA 6020B	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/06/22 09:29

**FL01 - W Wall 2ft
 2208304-05 (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
Magnesium	183	0.0598	mg/L dry	1	BFH0612	08/29/22	08/31/22	EPA 6020B	
Sodium	909	0.0598	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.6	0.00100	units	1	BFH0694	08/31/22	08/31/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.6		%	1	BFH0516	08/24/22	08/24/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.19	0.0100	mmhos/cm	1	BFH0647	08/30/22	08/31/22	EPA 120.1	

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

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BFH0648	08/30/22	08/31/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

Sep
2208304-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFH0525	08/24/22	08/25/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		111 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		97.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	58.4	12.0		mg/L	200	BFH0510	08/24/22	08/24/22	EPA 300.0	
Sulfate	164	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	713	10.0		mg/L	1	BFH0493	08/23/22	08/23/22	SM2540C	I-03

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PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

FL01
2208304-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFH0525	08/24/22	08/25/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	3.3	1.0	"	"	"	"	"	"	
Xylenes (total)	12	2.0	"	"	"	"	"	"	
Naphthalene	12	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.5	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	6.0	1.0	"	"	"	"	"	"	

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		85.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	124	12.0	mg/L	200	BFH0510	08/24/22	08/24/22	EPA 300.0	
Sulfate	791	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **08/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	1730	10.0	mg/L	1	BFH0493	08/23/22	08/23/22	SM2540C	I-03

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PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFH0508 - EPA 5030 Soil MS

Blank (BFH0508-BLK1)

Prepared & Analyzed: 08/24/22

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>	0.0366		"	0.0400		91.4	50-150				
<i>Surrogate: Toluene-d8</i>	0.0438		"	0.0400		109	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0444		"	0.0400		111	50-150				

LCS (BFH0508-BS1)

Prepared & Analyzed: 08/24/22

Benzene	0.160	0.0020	mg/kg	0.150		106	70-130				
Toluene	0.163	0.0050	"	0.150		109	70-130				
Ethylbenzene	0.155	0.0050	"	0.150		103	70-130				
m,p-Xylene	0.295	0.010	"	0.300		98.5	70-130				
o-Xylene	0.142	0.0050	"	0.150		94.9	70-130				
1,2,4-Trimethylbenzene	0.133	0.0050	"	0.150		88.8	70-130				
1,3,5-Trimethylbenzene	0.134	0.0050	"	0.150		89.2	70-130				
Naphthalene	0.141	0.0038	"	0.150		94.2	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0352		"	0.0400		88.0	50-150				
<i>Surrogate: Toluene-d8</i>	0.0436		"	0.0400		109	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0418		"	0.0400		104	50-150				

Matrix Spike (BFH0508-MS1)

Source: 2208299-01

Prepared & Analyzed: 08/24/22

Benzene	0.154	0.0020	mg/kg	0.150	ND	103	70-130				
Toluene	0.159	0.0050	"	0.150	ND	106	70-130				
Ethylbenzene	0.148	0.0050	"	0.150	ND	98.9	70-130				
m,p-Xylene	0.286	0.010	"	0.300	ND	95.3	70-130				
o-Xylene	0.136	0.0050	"	0.150	ND	90.8	70-130				
1,2,4-Trimethylbenzene	0.125	0.0050	"	0.150	ND	83.2	70-130				
1,3,5-Trimethylbenzene	0.126	0.0050	"	0.150	ND	84.1	70-130				
Naphthalene	0.134	0.0038	"	0.150	ND	89.4	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0359		"	0.0400		89.8	50-150				
<i>Surrogate: Toluene-d8</i>	0.0441		"	0.0400		110	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0427		"	0.0400		107	50-150				

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Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BFH0508 - EPA 5030 Soil MS

Matrix Spike Dup (BFH0508-MSD1)

Source: 2208299-01

Prepared & Analyzed: 08/24/22

Benzene	0.173	0.0020	mg/kg	0.150	ND	115	70-130	11.5	30	
Toluene	0.153	0.0050	"	0.150	ND	102	70-130	4.04	30	
Ethylbenzene	0.147	0.0050	"	0.150	ND	98.3	70-130	0.588	30	
m,p-Xylene	0.288	0.010	"	0.300	ND	95.9	70-130	0.649	30	
o-Xylene	0.139	0.0050	"	0.150	ND	92.4	70-130	1.79	30	
1,2,4-Trimethylbenzene	0.127	0.0050	"	0.150	ND	84.8	70-130	1.95	30	
1,3,5-Trimethylbenzene	0.130	0.0050	"	0.150	ND	86.5	70-130	2.86	30	
Naphthalene	0.134	0.0038	"	0.150	ND	89.0	70-130	0.404	30	
Surrogate: 1,2-Dichloroethane-d4	0.0349		"	0.0400		87.3	50-150			
Surrogate: Toluene-d8	0.0438		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

Batch BFH0525 - EPA 5030 Water MS

Blank (BFH0525-BLK1)

Prepared: 08/24/22 Analyzed: 08/25/22

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.5	21-167			

LCS (BFH0525-BS1)

Prepared: 08/24/22 Analyzed: 08/25/22

Benzene	40.8	1.0	ug/l	41.7		97.9	51-132			
Toluene	35.6	1.0	"	41.7		85.3	51-138			
Ethylbenzene	47.1	1.0	"	41.7		113	58-146			
m,p-Xylene	91.7	2.0	"	83.3		110	57-144			
o-Xylene	44.6	1.0	"	41.7		107	53-146			
Naphthalene	49.9	1.0	"	41.7		120	70-130			
1,2,4-Trimethylbenzene	46.2	1.0	"	41.7		111	70-130			
1,3,5-Trimethylbenzene	46.5	1.0	"	41.7		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.1	23-173			
Surrogate: Toluene-d8	11.4		"	13.3		85.9	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.4	21-167			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

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 BFH0525 - EPA 5030 Water MS

Matrix Spike (BFH0525-MS1)

Source: 2208317-01

Prepared: 08/24/22 Analyzed: 08/25/22

Benzene	40.7	1.0	ug/l	41.7	ND	97.8	34-141			
Toluene	36.0	1.0	"	41.7	ND	86.4	27-151			
Ethylbenzene	48.0	1.0	"	41.7	ND	115	29-160			
m,p-Xylene	93.3	2.0	"	83.3	ND	112	20-166			
o-Xylene	44.8	1.0	"	41.7	ND	108	33-159			
Naphthalene	47.8	1.0	"	41.7	ND	115	70-130			
1,2,4-Trimethylbenzene	46.9	1.0	"	41.7	ND	113	70-130			
1,3,5-Trimethylbenzene	46.9	1.0	"	41.7	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		95.7	23-173			
Surrogate: Toluene-d8	11.6		"	13.3		86.7	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.3	21-167			

Matrix Spike Dup (BFH0525-MSD1)

Source: 2208317-01

Prepared: 08/24/22 Analyzed: 08/25/22

Benzene	41.3	1.0	ug/l	41.7	ND	99.0	34-141	1.29	30	
Toluene	40.4	1.0	"	41.7	ND	96.9	27-151	11.5	30	
Ethylbenzene	45.2	1.0	"	41.7	ND	109	29-160	5.79	30	
m,p-Xylene	90.7	2.0	"	83.3	ND	109	20-166	2.86	30	
o-Xylene	44.2	1.0	"	41.7	ND	106	33-159	1.46	30	
Naphthalene	49.7	1.0	"	41.7	ND	119	70-130	3.86	30	
1,2,4-Trimethylbenzene	44.5	1.0	"	41.7	ND	107	70-130	5.27	30	
1,3,5-Trimethylbenzene	45.6	1.0	"	41.7	ND	109	70-130	2.88	30	
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.3		97.8	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.1	21-167			

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Fremont Environmental
 PO Box 1289
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Project: Noble - Odle BB19-11

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/06/22 09:29

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 BFH0509 - EPA 3550A

Blank (BFH0509-BLK1)

Prepared: 08/24/22 Analyzed: 08/25/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFH0509-BS1)

Prepared: 08/24/22 Analyzed: 08/25/22

C10-C28 (DRO)	496	50	mg/kg	500	99.2	70-130				
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Matrix Spike (BFH0509-MS1)

Source: 2208299-01

Prepared: 08/24/22 Analyzed: 08/25/22

C10-C28 (DRO)	416	50	mg/kg	500	14.8	80.3	70-130			
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Matrix Spike Dup (BFH0509-MSD1)

Source: 2208299-01

Prepared: 08/24/22 Analyzed: 08/25/22

C10-C28 (DRO)	420	50	mg/kg	500	14.8	81.1	70-130	0.903	20	
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PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

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 BFH0500 - EPA 5030 Soil MS

Blank (BFH0500-BLK1)

Prepared: 08/24/22 Analyzed: 08/25/22

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	0.0320		"	0.0333		95.9	40-150			
Surrogate: Fluoranthene-d10	0.0292		"	0.0333		87.6	40-150			

LCS (BFH0500-BS1)

Prepared: 08/24/22 Analyzed: 08/25/22

Acenaphthene	0.0333	0.00500	mg/kg	0.0333		99.8	31-137			
Anthracene	0.0351	0.00500	"	0.0333		105	30-120			
Benzo (a) anthracene	0.0261	0.00500	"	0.0333		78.2	30-120			
Benzo (a) pyrene	0.0297	0.00500	"	0.0333		89.0	30-120			
Benzo (b) fluoranthene	0.0305	0.00500	"	0.0333		91.4	30-120			
Benzo (k) fluoranthene	0.0374	0.00500	"	0.0333		112	30-120			
Chrysene	0.0309	0.00500	"	0.0333		92.6	30-120			
Dibenz (a,h) anthracene	0.0307	0.00500	"	0.0333		92.2	30-120			
Fluoranthene	0.0371	0.00500	"	0.0333		111	30-120			
Fluorene	0.0325	0.00500	"	0.0333		97.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0272	0.00500	"	0.0333		81.5	30-120			
Pyrene	0.0294	0.00500	"	0.0333		88.2	35-142			
1-Methylnaphthalene	0.0298	0.00500	"	0.0333		89.3	35-142			
2-Methylnaphthalene	0.0298	0.00500	"	0.0333		89.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0312		"	0.0333		93.5	40-150			
Surrogate: Fluoranthene-d10	0.0354		"	0.0333		106	40-150			

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PO Box 1289
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Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

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 BFH0500 - EPA 5030 Soil MS

Matrix Spike (BFH0500-MS1)

Source: 2208304-01

Prepared: 08/24/22 Analyzed: 08/25/22

Acenaphthene	0.0255	0.00500	mg/kg	0.0333	ND	76.6	31-137			
Anthracene	0.0217	0.00500	"	0.0333	ND	65.1	30-120			
Benzo (a) anthracene	0.0161	0.00500	"	0.0333	ND	48.4	30-120			
Benzo (a) pyrene	0.0175	0.00500	"	0.0333	ND	52.4	30-120			
Benzo (b) fluoranthene	0.0226	0.00500	"	0.0333	ND	67.7	30-120			
Benzo (k) fluoranthene	0.0256	0.00500	"	0.0333	ND	76.8	30-120			
Chrysene	0.0202	0.00500	"	0.0333	ND	60.6	30-120			
Dibenz (a,h) anthracene	0.0139	0.00500	"	0.0333	ND	41.6	30-120			
Fluoranthene	0.0176	0.00500	"	0.0333	ND	52.9	30-120			
Fluorene	0.0238	0.00500	"	0.0333	ND	71.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Pyrene	0.0356	0.00500	"	0.0333	ND	107	35-142			
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.7	15-130			
2-Methylnaphthalene	0.0216	0.00500	"	0.0333	ND	64.7	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0196		"	0.0333		58.7	40-150			
Surrogate: Fluoranthene-d10	0.0154		"	0.0333		46.1	40-150			

Matrix Spike Dup (BFH0500-MSD1)

Source: 2208304-01

Prepared: 08/24/22 Analyzed: 08/25/22

Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	60.8	31-137	23.0	30
Anthracene	0.0211	0.00500	"	0.0333	ND	63.2	30-120	2.95	30
Benzo (a) anthracene	0.0159	0.00500	"	0.0333	ND	47.7	30-120	1.61	30
Benzo (a) pyrene	0.0191	0.00500	"	0.0333	ND	57.2	30-120	8.75	30
Benzo (b) fluoranthene	0.0226	0.00500	"	0.0333	ND	67.9	30-120	0.261	30
Benzo (k) fluoranthene	0.0269	0.00500	"	0.0333	ND	80.8	30-120	4.96	30
Chrysene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	0.0181	30
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.8	30-120	11.7	30
Fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	9.73	30
Fluorene	0.0190	0.00500	"	0.0333	ND	56.9	30-120	22.7	30
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.4	30-120	0.213	30
Pyrene	0.0333	0.00500	"	0.0333	ND	100	35-142	6.52	30
1-Methylnaphthalene	0.0186	0.00500	"	0.0333	ND	55.8	15-130	3.20	50
2-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.8	15-130	13.1	50
Surrogate: 2-Methylnaphthalene-d10	0.0189		"	0.0333		56.7	40-150		
Surrogate: Fluoranthene-d10	0.0169		"	0.0333		50.7	40-150		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/06/22 09:29

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 BFH0576 - EPA 3050B

Blank (BFH0576-BLK1)

Prepared: 08/26/22 Analyzed: 08/27/22

Boron ND 0.0100 mg/L

LCS (BFH0576-BS1)

Prepared: 08/26/22 Analyzed: 08/27/22

Boron 5.41 0.0100 mg/L 5.00 108 80-120

Duplicate (BFH0576-DUP1)

Source: 2208304-01

Prepared: 08/26/22 Analyzed: 08/27/22

Boron 0.0966 0.0100 mg/L 0.102 5.44 20

Matrix Spike (BFH0576-MS1)

Source: 2208304-01

Prepared: 08/26/22 Analyzed: 08/27/22

Boron 5.39 0.0100 mg/L 5.00 0.102 106 75-125

Matrix Spike Dup (BFH0576-MSD1)

Source: 2208304-01

Prepared: 08/26/22 Analyzed: 08/27/22

Boron 5.49 0.0100 mg/L 5.00 0.102 108 75-125 1.86 25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/06/22 09:29

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 BFH0612 - General Preparation

Blank (BFH0612-BLK1)

Prepared: 08/29/22 Analyzed: 08/31/22

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

LCS (BFH0612-BS1)

Prepared: 08/29/22 Analyzed: 08/31/22

Calcium	5.18	0.0500	mg/L wet	5.00	104	70-130				
Magnesium	4.93	0.0500	"	5.00	98.7	70-130				
Sodium	4.69	0.0500	"	5.00	93.8	70-130				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/06/22 09:29

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BFH0510 - General Preparation

Blank (BFH0510-BLK1)

Prepared & Analyzed: 08/24/22

Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							

LCS (BFH0510-BS1)

Prepared & Analyzed: 08/24/22

Chloride	2.99	0.0600	mg/L	3.00	99.8	90-110				
Sulfate	15.4	0.300	"	15.0	103	90-110				

Duplicate (BFH0510-DUP1)

Source: 2208297-01

Prepared & Analyzed: 08/24/22

Chloride	82.2	12.0	mg/L		94.4		13.8	20		
Sulfate	214	60.0	"		161		28.0	20		QR-04

Matrix Spike (BFH0510-MS1)

Source: 2208297-01

Prepared & Analyzed: 08/24/22

Chloride	649	12.0	mg/L	600	94.4	92.5	80-120			
Sulfate	3310	60.0	"	3000	161	105	80-120			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/06/22 09:29

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

Summit Scientific

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

Batch BFH0516 - General Preparation

Duplicate (BFH0516-DUP1)

Source: 2208304-01

Prepared & Analyzed: 08/24/22

% Solids	81.6		%		80.9			0.789	20	
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/06/22 09:29

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

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

Batch BFH0493 - General Preparation

Blank (BFH0493-BLK1)

Prepared & Analyzed: 08/23/22

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BFH0493-DUP1)

Source: 2208290-01

Prepared & Analyzed: 08/23/22

Total Dissolved Solids 1280 10.0 mg/L 1260 2.20 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/06/22 09:29

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

Summit Scientific

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

Batch BFH0647 - General Preparation

Blank (BFH0647-BLK1)

Prepared: 08/30/22 Analyzed: 08/31/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFH0647-BS1)

Prepared: 08/30/22 Analyzed: 08/31/22

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BFH0647-DUP1)

Source: 2208303-01

Prepared: 08/30/22 Analyzed: 08/31/22

Specific Conductance (EC) 3.73 0.0100 mmhos/cm 3.74 0.268 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/06/22 09:29

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 BFH0648 - General Preparation

LCS (BFH0648-BS1)

Prepared: 08/30/22 Analyzed: 08/31/22

pH	8.93	pH Units	9.18	97.3	95-105
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Duplicate (BFH0648-DUP1)

Source: 2208303-01

Prepared: 08/30/22 Analyzed: 08/31/22

pH	7.68	pH Units	7.67	0.130	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Odle BB19-11

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/06/22 09:29

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- I-03 This sample was recieved and analyzed outside of the recommended holding time.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference