

# **FREMONT ENVIRONMENTAL INC.**

May 19, 2023

Mr. Dan Peterson  
Noble Energy Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, CO 80634

Subject:           **Facility Closure Data Submittal**  
Kissler 01,03X Facility  
Facility ID: 447356  
SWSW Sec. 23, T4N, R64W  
Weld County, Colorado  
Fremont Project No. C023-074  
Remediation # 23714

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted facility abandonment activities at the Noble Energy Inc. (Noble) Kissler 01,03X Facility. Details of the facility abandonment activities are documented in the attached Closure Report. The soil sample collected from the base of the PWV excavation (PWVB01@6.5') was reported with exceedances for organic compounds. Additionally, the soil sample collected under the crude tank (AST01@6") was reported with a slightly elevated pH. Groundwater was not encountered during decommissioning activities.

Please contact me at (970) 213-7488 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

**FREMONT ENVIRONMENTAL INC.**

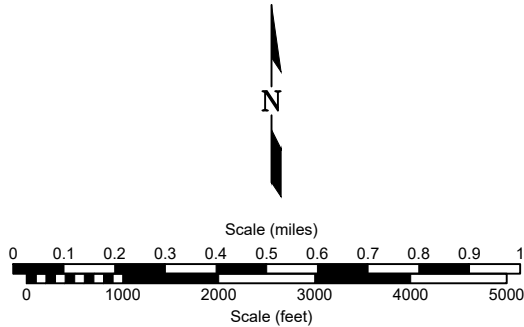
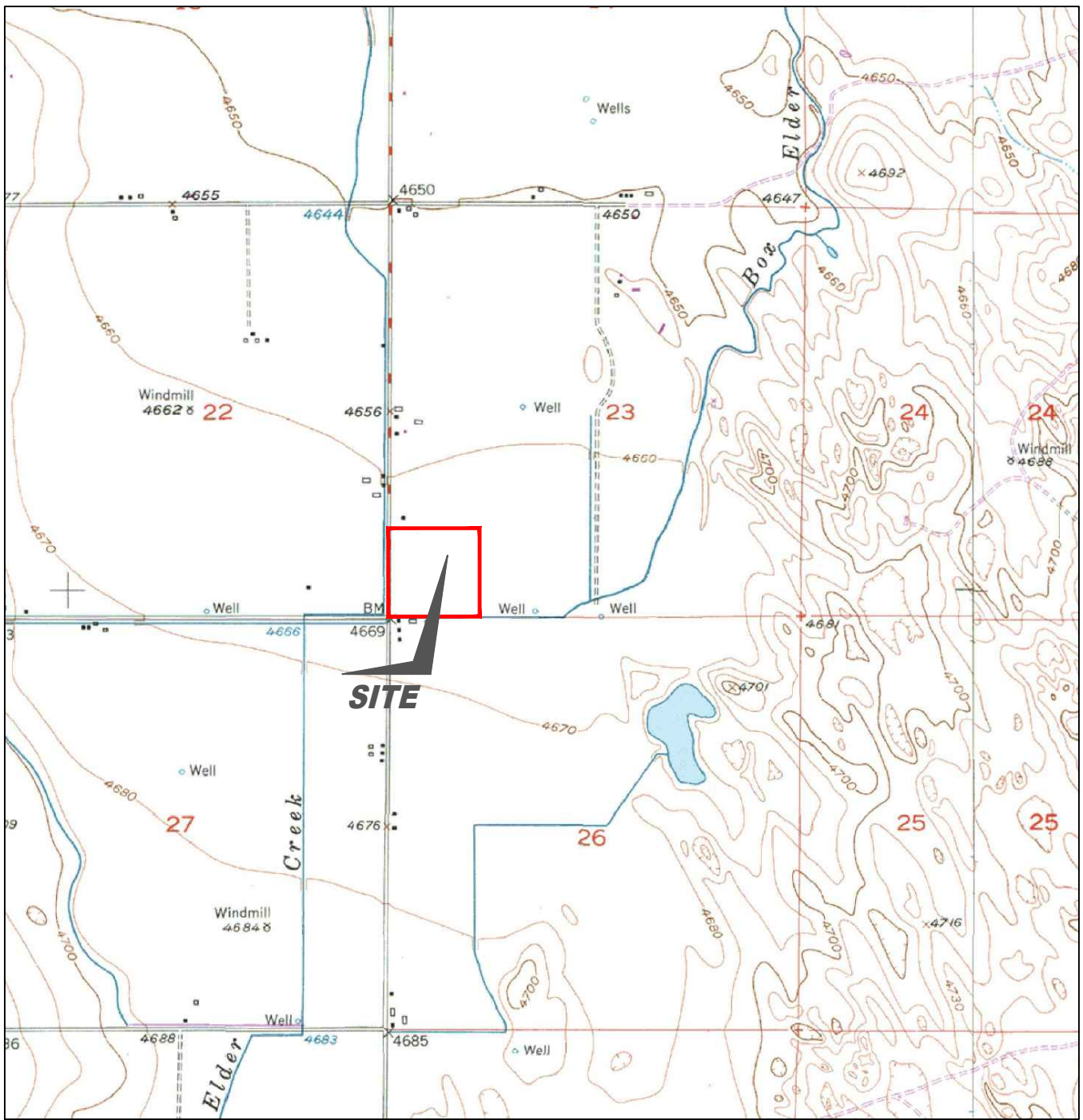


Chris Lattes  
Consultant

Attachments:

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


**1759 REDWING LANE, BROOMFIELD, CO 80020**  
**(303) 956-8714 (DIRECT)**

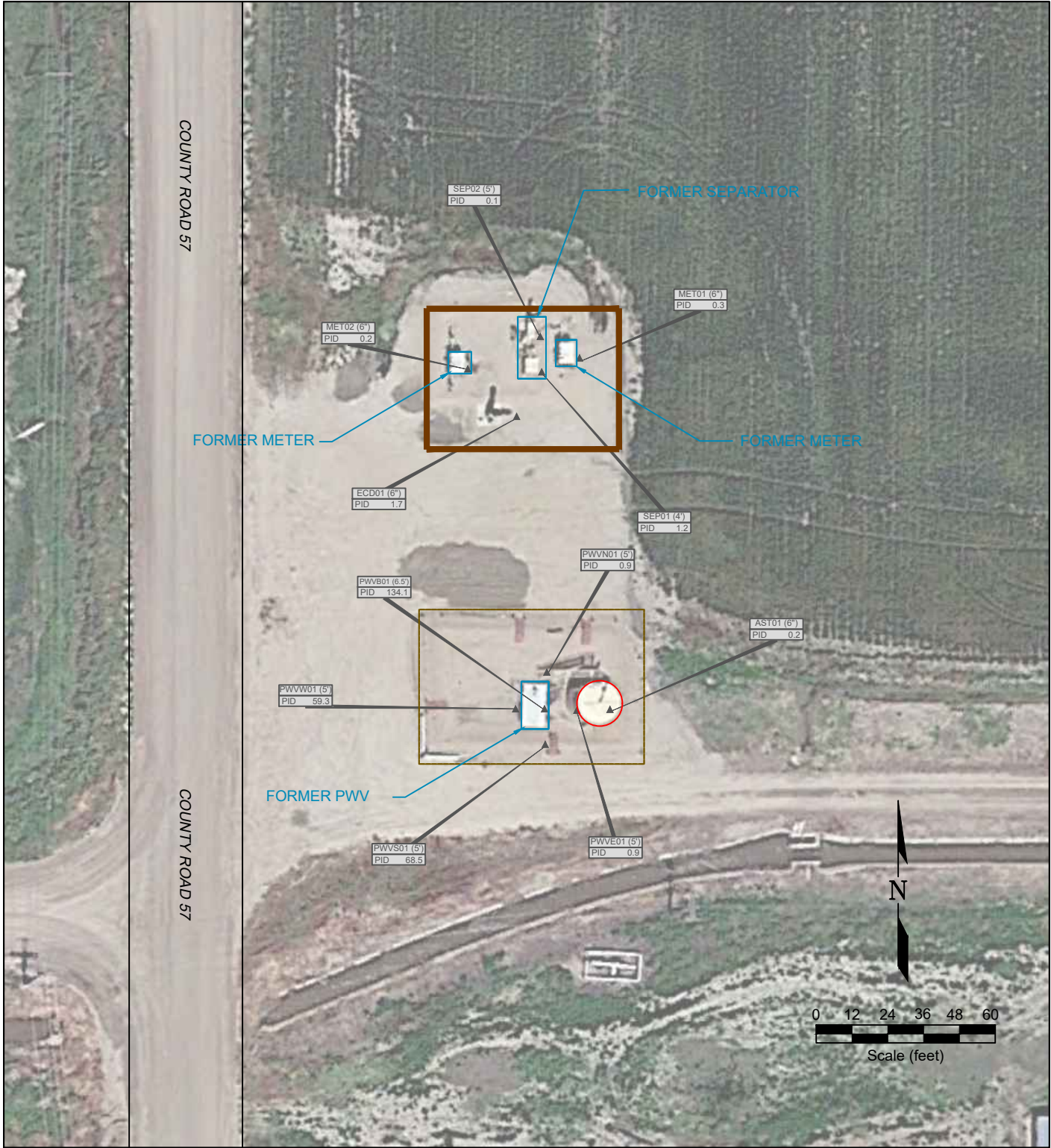


USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
**SITE LOCATION MAP**

**NOBLE ENERGY INC - KISSLER 01,03X**  
**SWSW Sec. 23, T4N, R64W, 6th PM**  
 Weld County, Colorado  
 40.290983°, -104.527062°

Project No. <b>CO23-074</b>	API #	Facility # <b>447356</b>	
Date <b>07/26/2023</b>	Remediation # <b>23714</b>	Filename <b>23074T</b>	



**LEGEND**

● WELLHEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	— FLOW LINE
▲ PID READING LOCATION			— FENCE LINE
			— CONTAINMENT BERM

FL01	PID READING LOCATION IDENTIFICATION
PID 0.1	PHOTO IONIZATION DETECTION (ppm)

Figure 2  
**SITE MAP**

**NOBLE ENERGY INC - KISSLER 01,03X**  
**SWSW Sec. 23, T4N, R64W, 6th PM**  
 Weld County, Colorado  
 40.290983°, -104.527062°

Project No. <b>CO23-074</b>	API #	Facility # <b>447356</b>
Date <b>07/26/2023</b>	Remediation # <b>23714</b>	Filename <b>23074QTB</b>





TABLE 1  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE ENERGY, INC.  
KISSLER 01,03X, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C023-074

Sample ID	Sample Date	Depth (ft)	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)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	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**		
AST01@6"	03/08/2023	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
PWVB01@6.5'	03/08/2023	6.5	<b>0.043</b>	<0.0050	0.019	<0.010	<b>0.49</b>	<0.0050	<b>0.044</b>	4.8	<50	<50
PWVS01@5'	03/08/2023	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	1.2	210	<50
SEP01@4'	03/08/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of 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.  
KISSLER 01,03X, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C023-074

Sample ID	Sample Date	Depth (ft)	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)	Dibenzo (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)
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
AST01@6"	03/08/2023	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWVB01@6.5'	03/08/2023	6.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.024	<0.00500	<0.00500	<b>0.142</b>	<b>0.162</b>
PWVS01@5'	03/08/2023	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0195	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP01@4'	03/08/2023	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

**TABLE 3**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE ENERGY, INC.**  
**KISSLER 01,03X, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-074**

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
AST01@6"	03/08/2023	0.5	<b>8.75</b>	0.222	1.240	0.125
PWVB01@6.5'	03/08/2023	6.5	7.77	0.398	1.47	0.812
PWVS01@5'	03/08/2023	5	7.87	0.553	0.607	0.655
SEP01@4'	03/08/2023	4	8.02	0.412	1	0.497

Bold faced values exceed the COGCC Table 915-1 concentrations

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

## Tank Battery Closure Checklist

### COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure	<b>X</b>	Partially Buried Vault Closure
Site Name & COGCC Facility Number: <b>KISSLER 01,03X</b>		Date: <b>3/8/2023</b>		Remediation Project #: <b>23714</b>				
Associated Wells: <b>Kissler 3X</b>		Age of Site: <b>Unknown</b>		Number of Photos Attached: <b>See attached</b>				
Location: (GPS coordinates of southeaster berm) <b>40.290918, -104.527101</b>							Estimated Facility Size (acres):	

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)  
**Good condition, no observed issues.**

USCS Soil Type: <b>Sandy silt (ML/SM)</b>	Estimated Depth to Groundwater: <b>Unknown</b>
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Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**No observed impacted soil or spills.**

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**No observed salt crusted soil or impacted vegetation.**

#### Tanks

Tank Contents	Crude							
Size (barrels)	300							
Age	Unknown							
Construction Material	Steel							
Tank type (AST/DRV, etc.)	AST							
Visual Integrity of Tank	Good - per crew							
Condition of tank footprint	Good condition							
PID Readings	0.2							
Soil impacts present at valves or hatches?	None observed							
PID Readings								
Sample taken? Location/ Sample ID#	See attached figure							
Photo Number(s)	See attached							

Other observations regarding tanks:

#### Separators

Separator size	Unknown							
Vertical or Horizontal	Horizontal							
Age	Unknown							
Soil impacts observed? If yes,	None observed							
PID Readings	0.1 - 1.2 ppm							
Sample taken? Location/ Sample ID#	See attached figure							
Photo Number(s)	See attached							

Other observations regarding separators

#### Third Party Equipment

Type	Meter Shed	Meter Shed						
Age	Unknown	Unknown						

Third Party	Unknown	Unknown							
Removal Date	Unknown	Unknown							
Sample taken?	MET01	MET02							
PID Readings	0.3	0.2							
Photo Number(s)	See attached	See attached							

### Other Facility Equipment

Equipment type	ECD				
Equipment Condition	Good condition				
Age	Unknown				
Soil impacts	None observed				
PID Readings	1.7 ppm				
Sample taken?	ECD01				
Photo Number(s)	See attached				

Other observations regarding other facility or third party equipment:

### Summary

Was impacted soil identified? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards	
Total number of samples field screened: 7	Total number of samples collected: 7
Highest PID Reading: 1.7 ppm	Total number of samples submitted to lab for analysis: 2
If more than 10 cubic yards of impacted soil were observed: N/A	
Vertical extent:	Estimated spill volume:
Lateral extent:	Volume of soil removed:
Is additional investigation required?	
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils	
Measured depth to groundwater:	Was remedial groundwater removal conducted? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Groundwater was encountered:	Commencement date of removal:
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No	Volume of groundwater removed prior to sampling:
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Volume of groundwater removed post sampling:
Total number of samples collected:	Total Volume of groundwater removed:
Total number of samples submitted to lab for analysis:	

## Buried or Partially Buried Vessel Closure Checklist

### COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Tank Battery Closure	
Site Name & COGCC Facility Number: <b>KISSLER 01,03X</b>		Date: <b>3/8/2023</b>				Remediation Project #: <b>23714</b>			
Associated Wells: <b>Kissler 3X</b>		Age of Site: <b>Unknown</b>				Number of Photos Attached:			
Location: (GPS coordinates of vault or southeastern tank berm for multiple) <b>40.290918, -104.527101</b>						Estimated Facility Size (acres):			

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)

**Good condition, no observed issues,**

USCS Soil Type: <b>Sandy silt (ML/SM)</b>	Estimated Depth to Groundwater: <b>Unknown</b>
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Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

**Elevated PIDs measured at the PWV excavation.**

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

**No observed salt crusted soil or impacted vegetation.**

#### Buried or Partially Buried Vessels

Tank Contents	Produced water							
Size (barrels)	50							
Age	Unknown							
Construction Material	Concrete							
Visual Integrity of Tank	Good - per crew							
Condition of tank	Grey							
PID Readings	134.1 ppm							
Condition of Access Lines	Elevated PIDs							
PID Readings	0.9 to 68.5 ppm							
Sample taken? Location/Sample ID#	See attached figure							
Photo Number(s)	See attached							

Other observations regarding partially buried vessels:

#### Summary

Was impacted soil identified?		<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes - less than 10 cubic yards	<input type="checkbox"/> Yes - more than 10 cubic yards
Total number of samples field screened: <b>5</b>		Total number of samples collected: <b>5</b>		
Highest PID Reading: <b>134.1</b>		Total number of samples submitted to lab for analysis: <b>2</b>		
<b>If more than 10 cubic yards of impacted soil were observed:</b>				
Vertical extent:		Estimated spill volume:		
Lateral extent:		Volume of soil removed:		
Is additional investigation required?				
Was groundwater encountered during the investigation?				
<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes - not impacted or in contact with impacted soils	<input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils		
Measured depth to groundwater:		Was remedial groundwater removal conducted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date Groundwater was encountered:		Commencement date of removal:		
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No		Volume of groundwater removed prior to sampling:		
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> No		Volume of groundwater removed post sampling:		
Total number of samples collected:		Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:				

# Photo Log

DIRECTION  
NW (T)

40.29085°N  
104.52697°W

ACCURACY 5 m  
DATUM WGS84



Kissler 03X  
Kissler T4N-R64W-S23...

Overview

2023-03-08  
11:33:04-07:00

Taken With  
**Context Camera**

### Description:

Overview facing NW

# Photo Log



DIRECTION  
NW (T)

40.29087°N  
104.52705°W

ACCURACY 5 m  
DATUM WGS84



Kissler 03X  
Kissler T4N-R64W-S23...

PWV Excavation

2023-03-08  
11:32:02-07:00

### Description:

PWV Excavation Facing NW

# Photo Log



**Description:**

PWV Excavation Facing NE

# Photo Log



**Description:**

PWV Excavation Facing SE

# Photo Log



### Description:

PWV Excavation Facing SW

# Photo Log



### Description:

AST01@6"

# Photo Log



DIRECTION  
E (T)

40.29110°N  
104.52716°W

ACCURACY 5 m  
DATUM WGS84



Taken With  
**Context Camera**

Kissler 03X  
Kissler T4N-R64W-S23...

ECD01

2023-03-08  
12:00:19-07:00

### Description:

ECD01@6"

# Photo Log



### Description:

Separator Excavation Facing S; SEP01@4' (far), SEP02@5' (close)

# Photo Log



**Description:**

MET01@6"

# Photo Log



**Description:**

MET02@6"

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 20, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Kissler 03x  
Work Order #2303231

Enclosed are the results of analyses for samples received by Summit Scientific on 03/09/23 16:30. 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 - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWVS01@5'	2303231-01	Soil	03/08/23 00:00	03/09/23 16:30
PWVB01@6.5'	2303231-02	Soil	03/08/23 00:00	03/09/23 16:30
AST01@6"	2303231-03	Soil	03/08/23 00:00	03/09/23 16:30
SRP01@4'	2303231-04	Soil	03/08/23 00:00	03/09/23 16:30

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

2303231

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (F)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to Noble

Phone:

Project Name: Kissler 03X

Sampler Name: Chris Lattes

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	TPH, BTEX, TMS, Naph.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD			
1	PWV SD1 @ 5'	3/8/23		481			X			X			X	X	X						
2	PWV B01 @ 6.5'	↓		111			↓			↓			↓	↓	↓						
3	AST01 @ 6"	↓		111			↓			↓			↓	↓	↓						
4	SEP01 @ 4'	3/8/23		86			X			X			X	X	X						
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: Chris Lattes	Date/Time: 3/9/23 11:30	Received by: [Signature]	Date/Time: 3/9/23 11:30	Turn Around Time (Check):	Same Day: <input type="checkbox"/>	72 hours: <input type="checkbox"/>	24 hours: <input type="checkbox"/>	Standard: <input checked="" type="checkbox"/>	Notes: Kissler 3X FZ + Kissler T4N R64W S23 L92 Fac
Relinquished by: S2	Date/Time: 3/23 1030	Received by: [Signature]	Date/Time: 3/23 1030	Sample Integrity:	Temperature Upon Receipt: 7.6	Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Relinquished by:	Date/Time:	Received by:	Date/Time:						

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2303231

Client: Fremont Client Project ID: Kissler 03X

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

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

Temp (°C) 7.6

Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

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

AS  
Custodian Printed Name

3/9/23 1630  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**PWVS01@5'**  
**2303231-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0291	03/10/23	03/12/23	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		"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.2</b>	<b>0.50</b>		"	"	"	"	"	"	

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0422	105 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0391	97.6 %		50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0496	124 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>210</b>	50		mg/kg	1	BGC0293	03/10/23	03/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	12.9	103 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**PWVS01@5'**  
**2303231-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/14/23	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	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0195</b>	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: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0278	83.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0253	76.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.655</b>	0.0100	mg/L	1	BGC0382	03/14/23	03/16/23	EPA 6020B	

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

Date Sampled: **03/08/23 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 - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**PWVS01@5'**  
**2303231-01 (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	50.5	0.0594	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	16.3	0.0594	"	"	"	"	"	"	
Sodium	19.4	0.0594	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.607	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BGC0309	03/10/23	03/13/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.553	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**PWVB01@6.5'**  
**2303231-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.043</b>	0.0020	mg/kg	1	BGC0291	03/10/23	03/12/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.019</b>	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.49</b>	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.044</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>4.8</b>	0.50	"	"	"	"	"	"	

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0419	105 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0403	101 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0478	119 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGC0293	03/10/23	03/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	11.5	92.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**PWVB01@6.5'**  
**2303231-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/14/23	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0240</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.142</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.162</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0238	71.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	61.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.812</b>	0.0100	mg/L	1	BGC0382	03/14/23	03/16/23	EPA 6020B	

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

Date Sampled: **03/08/23 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 - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**PWVB01@6.5'**  
**2303231-02 (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	30.8	0.0653	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	5.96	0.0653	"	"	"	"	"	"	
Sodium	34.0	0.0653	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.47	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.5		%	1	BGC0309	03/10/23	03/13/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.398	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.77		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**AST01@6''  
2303231-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGC0291	03/10/23	03/12/23	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: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0414	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGC0293	03/10/23	03/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.0	112 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**AST01@6''  
2303231-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/14/23	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: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0237	71.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	58.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.125</b>	0.0100	mg/L	1	BGC0382	03/14/23	03/16/23	EPA 6020B	

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

Date Sampled: **03/08/23 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 - Kissler 03x

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:39

**AST01@6''  
 2303231-03 (Soil)**

**Summit Scientific**

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.4	0.0528	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	10.6	0.0528	"	"	"	"	"	"	
Sodium	30.1	0.0528	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.24	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BGC0309	03/10/23	03/13/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.222	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.75		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**SRP01@4'**  
**2303231-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0291	03/10/23	03/12/23	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: **03/08/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGC0293	03/10/23	03/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.2	98.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**SRP01@4'**  
**2303231-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/14/23	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: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0277	83.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0191	57.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.497</b>	0.0100	mg/L	1	BGC0382	03/14/23	03/16/23	EPA 6020B	

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

Date Sampled: **03/08/23 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 - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**SRP01@4'**  
**2303231-04 (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	33.2	0.0573	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	12.8	0.0573	"	"	"	"	"	"	
Sodium	26.8	0.0573	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.00	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.2		%	1	BGC0309	03/10/23	03/13/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.412	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/08/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

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PO Box 1289  
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Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

### 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 BGC0291 - EPA 5030 Soil MS

##### Blank (BGC0291-BLK1)

Prepared: 03/10/23 Analyzed: 03/11/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	50-150			

##### LCS (BGC0291-BS1)

Prepared: 03/10/23 Analyzed: 03/11/23

Benzene	0.168	0.0020	mg/kg	0.150		112	70-130			
Toluene	0.166	0.0050	"	0.150		111	70-130			
Ethylbenzene	0.169	0.0050	"	0.150		112	70-130			
m,p-Xylene	0.341	0.010	"	0.300		114	70-130			
o-Xylene	0.164	0.0050	"	0.150		109	70-130			
1,2,4-Trimethylbenzene	0.167	0.0050	"	0.150		111	70-130			
1,3,5-Trimethylbenzene	0.168	0.0050	"	0.150		112	70-130			
Naphthalene	0.151	0.0038	"	0.150		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	50-150			

##### Matrix Spike (BGC0291-MS1)

Source: 2303226-01

Prepared: 03/10/23 Analyzed: 03/11/23

Benzene	0.126	0.0020	mg/kg	0.150	ND	83.7	70-130			
Toluene	0.121	0.0050	"	0.150	ND	80.9	70-130			
Ethylbenzene	0.123	0.0050	"	0.150	ND	82.1	70-130			
m,p-Xylene	0.249	0.010	"	0.300	ND	82.8	70-130			
o-Xylene	0.121	0.0050	"	0.150	ND	80.9	70-130			
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.150	ND	81.4	70-130			
1,3,5-Trimethylbenzene	0.123	0.0050	"	0.150	ND	82.3	70-130			
Naphthalene	0.118	0.0038	"	0.150	ND	78.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.3	50-150			

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Project: Noble - Kissler 03x

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:39

**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 BGC0291 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGC0291-MSD1)</b>	<b>Source: 2303226-01</b>			<b>Prepared: 03/10/23 Analyzed: 03/11/23</b>						
Benzene	0.154	0.0020	mg/kg	0.150	ND	103	70-130	20.6	30	
Toluene	0.152	0.0050	"	0.150	ND	101	70-130	22.5	30	
Ethylbenzene	0.154	0.0050	"	0.150	ND	103	70-130	22.2	30	
m,p-Xylene	0.308	0.010	"	0.300	ND	103	70-130	21.2	30	
o-Xylene	0.150	0.0050	"	0.150	ND	100	70-130	21.2	30	
1,2,4-Trimethylbenzene	0.149	0.0050	"	0.150	ND	99.5	70-130	20.1	30	
1,3,5-Trimethylbenzene	0.150	0.0050	"	0.150	ND	100	70-130	19.6	30	
Naphthalene	0.143	0.0038	"	0.150	ND	95.6	70-130	19.1	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.3</i>	<i>50-150</i>			

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Project: Noble - Kissler 03x

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:39

**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 BGC0293 - EPA 3550A**

**Blank (BGC0293-BLK1)**

Prepared & Analyzed: 03/10/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.3		"	12.5	114	30-150					

**LCS (BGC0293-BS1)**

Prepared & Analyzed: 03/10/23

C10-C28 (DRO)	451	50	mg/kg	500	90.2	70-130					
Surrogate: <i>o</i> -Terphenyl	13.9		"	12.5	111	30-150					

**Matrix Spike (BGC0293-MS1)**

Source: 2303226-01

Prepared & Analyzed: 03/10/23

C10-C28 (DRO)	488	50	mg/kg	500	10.5	95.5	70-130				
Surrogate: <i>o</i> -Terphenyl	11.0		"	12.5	88.3	30-150					

**Matrix Spike Dup (BGC0293-MSD1)**

Source: 2303226-01

Prepared & Analyzed: 03/10/23

C10-C28 (DRO)	434	50	mg/kg	500	10.5	84.7	70-130	11.7	20		
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5	100	30-150					

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Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**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 BGC0300 - EPA 5030 Soil MS**

**Blank (BGC0300-BLK1)**

Prepared: 03/10/23 Analyzed: 03/13/23

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>	<i>0.0254</i>		"	<i>0.0333</i>		<i>76.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0443</i>		"	<i>0.0333</i>		<i>133</i>	<i>40-150</i>			

**LCS (BGC0300-BS1)**

Prepared: 03/10/23 Analyzed: 03/13/23

Acenaphthene	0.0357	0.00500	mg/kg	0.0333	107	31-137
Anthracene	0.0344	0.00500	"	0.0333	103	30-120
Benzo (a) anthracene	0.0325	0.00500	"	0.0333	97.6	30-120
Benzo (a) pyrene	0.0300	0.00500	"	0.0333	89.9	30-120
Benzo (b) fluoranthene	0.0338	0.00500	"	0.0333	101	30-120
Benzo (k) fluoranthene	0.0365	0.00500	"	0.0333	109	30-120
Chrysene	0.0314	0.00500	"	0.0333	94.3	30-120
Dibenz (a,h) anthracene	0.0300	0.00500	"	0.0333	90.1	30-120
Fluoranthene	0.0345	0.00500	"	0.0333	103	30-120
Fluorene	0.0343	0.00500	"	0.0333	103	30-120
Indeno (1,2,3-cd) pyrene	0.0306	0.00500	"	0.0333	91.8	30-120
Pyrene	0.0363	0.00500	"	0.0333	109	35-142
1-Methylnaphthalene	0.0344	0.00500	"	0.0333	103	35-142
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	67.4	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0393</i>		"	<i>0.0333</i>	<i>118</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0343</i>		"	<i>0.0333</i>	<i>103</i>	<i>40-150</i>

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Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

**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 BGC0300 - EPA 5030 Soil MS**

**Matrix Spike (BGC0300-MS1)**

Source: 2303046-01

Prepared: 03/10/23 Analyzed: 03/13/23

Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.6	31-137		
Anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120		
Benzo (a) anthracene	0.0217	0.00500	"	0.0333	ND	65.1	30-120		
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.5	30-120		
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.7	30-120		
Benzo (k) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3	30-120		
Chrysene	0.0181	0.00500	"	0.0333	ND	54.3	30-120		
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120		
Fluoranthene	0.0213	0.00500	"	0.0333	ND	63.8	30-120		
Fluorene	0.0208	0.00500	"	0.0333	ND	62.5	30-120		
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333	ND	52.5	30-120		
Pyrene	0.0217	0.00500	"	0.0333	ND	65.0	35-142		
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.7	15-130		
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.5	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0248		"	0.0333		74.4	40-150		
Surrogate: Fluoranthene-d10	0.0249		"	0.0333		74.8	40-150		

**Matrix Spike Dup (BGC0300-MSD1)**

Source: 2303046-01

Prepared: 03/10/23 Analyzed: 03/13/23

Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.6	31-137	0.0236	30
Anthracene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	0.548	30
Benzo (a) anthracene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	0.0445	30
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	13.9	30
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	0.723	30
Benzo (k) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	0.399	30
Chrysene	0.0183	0.00500	"	0.0333	ND	54.9	30-120	1.07	30
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	5.43	30
Fluoranthene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	2.57	30
Fluorene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	0.351	30
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	2.56	30
Pyrene	0.0223	0.00500	"	0.0333	ND	67.0	35-142	3.05	30
1-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	65.9	15-130	13.3	50
2-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.2	15-130	1.36	50
Surrogate: 2-Methylnaphthalene-d10	0.0267		"	0.0333		80.1	40-150		
Surrogate: Fluoranthene-d10	0.0245		"	0.0333		73.6	40-150		

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Project: Noble - Kissler 03x

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:39

**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 BGC0382 - EPA 3050B**

**Blank (BGC0382-BLK1)**

Prepared: 03/14/23 Analyzed: 03/16/23

Boron ND 0.0100 mg/L

**LCS (BGC0382-BS1)**

Prepared: 03/14/23 Analyzed: 03/16/23

Boron 5.14 0.0100 mg/L 5.00 103 80-120

**Duplicate (BGC0382-DUP1)**

**Source: 2303229-01**

Prepared: 03/14/23 Analyzed: 03/16/23

Boron 0.526 0.0100 mg/L 0.540 2.58 20

**Matrix Spike (BGC0382-MS1)**

**Source: 2303229-01**

Prepared: 03/14/23 Analyzed: 03/16/23

Boron 5.50 0.0100 mg/L 5.00 0.540 99.2 75-125

**Matrix Spike Dup (BGC0382-MSD1)**

**Source: 2303229-01**

Prepared: 03/14/23 Analyzed: 03/16/23

Boron 5.45 0.0100 mg/L 5.00 0.540 98.2 75-125 0.959 25

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Project: Noble - Kissler 03x

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:39

**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 BGC0438 - General Preparation**

**Blank (BGC0438-BLK1)**

Prepared: 03/15/23 Analyzed: 03/18/23

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

**LCS (BGC0438-BS1)**

Prepared: 03/15/23 Analyzed: 03/18/23

Calcium	5.74	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.49	0.0500	"	5.00		110	70-130			
Sodium	5.02	0.0500	"	5.00		100	70-130			

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Project: Noble - Kissler 03x

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:39

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

**Summit Scientific**

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

**Batch BGC0309 - General Preparation**

Duplicate (BGC0309-DUP1)	Source: 2303226-05		Prepared: 03/10/23 Analyzed: 03/13/23	
% Solids	89.5	%	91.3	2.03 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Kissler 03x

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:39

**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 BGC0494 - General Preparation**

**Blank (BGC0494-BLK1)**

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGC0494-BS1)**

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BGC0494-DUP1)**

Source: 2303229-01

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) 4.42 0.0100 mmhos/cm 4.51 2.04 20

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Kissler 03x

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:39

**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 BGC0493 - General Preparation**

**LCS (BGC0493-BS1)**

Prepared: 03/16/23 Analyzed: 03/17/23

pH	9.08	pH Units	9.18	98.9	95-105
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**Duplicate (BGC0493-DUP1)**

Source: 2303229-01

Prepared: 03/16/23 Analyzed: 03/17/23

pH	7.82	pH Units	7.89	0.891	20
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Summit Scientific

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





Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Kissler 03x

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:39

### 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