

FREMONT ENVIRONMENTAL INC.

July 6, 2023

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

Subject: **Facility Closure Data Submittal**
Cornelius-63N65W 11SWNW Facility
Facility ID: 332721
SWNW Sec. 11, T3N, R65W
Weld County, Colorado
Fremont Project No. C023-125
Remediation # 28380

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted facility abandonment activities at the Noble Energy Inc. (Noble) Cornelius-63N65W 11SWNW Facility. Details of the facility abandonment activities are documented in the attached Closure Report. The soil sample collected from the PWV excavation's East wall (PWVE01@6') was reported with elevated concentrations of 1,2,4 and 1,3,5 Trimethylbenzene. Additionally, the soil sample collected from the base of the former crude storage tank (AST01@6") was reported with a value of pH lower than the regulatory limit. Groundwater was observed in the PWV excavation at approximately 8 feet below ground surface and was sampled for the presence of Table 915 Organics in groundwater. The groundwater sample (GW01) was reported with elevated concentrations of Benzene, 1,2,4 Trimethylbenzene, and 1,3,5 Trimethylbenzene.

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

Sincerely,

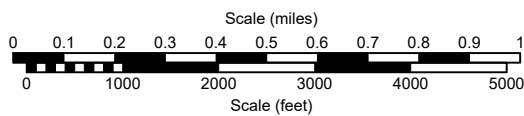
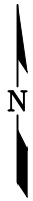
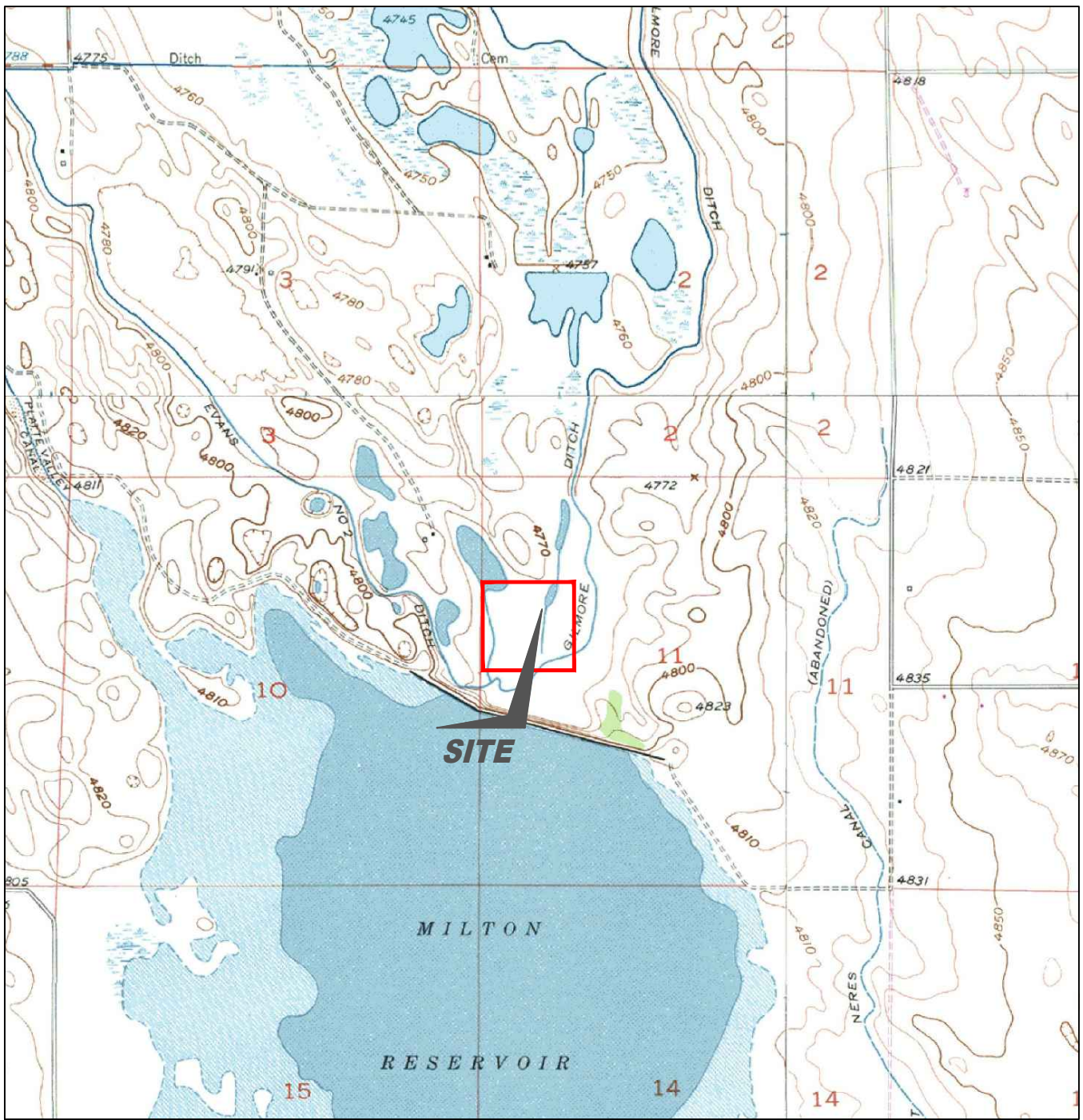
FREMONT ENVIRONMENTAL INC.



Chris Lattes
Consultant

Attachments:

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



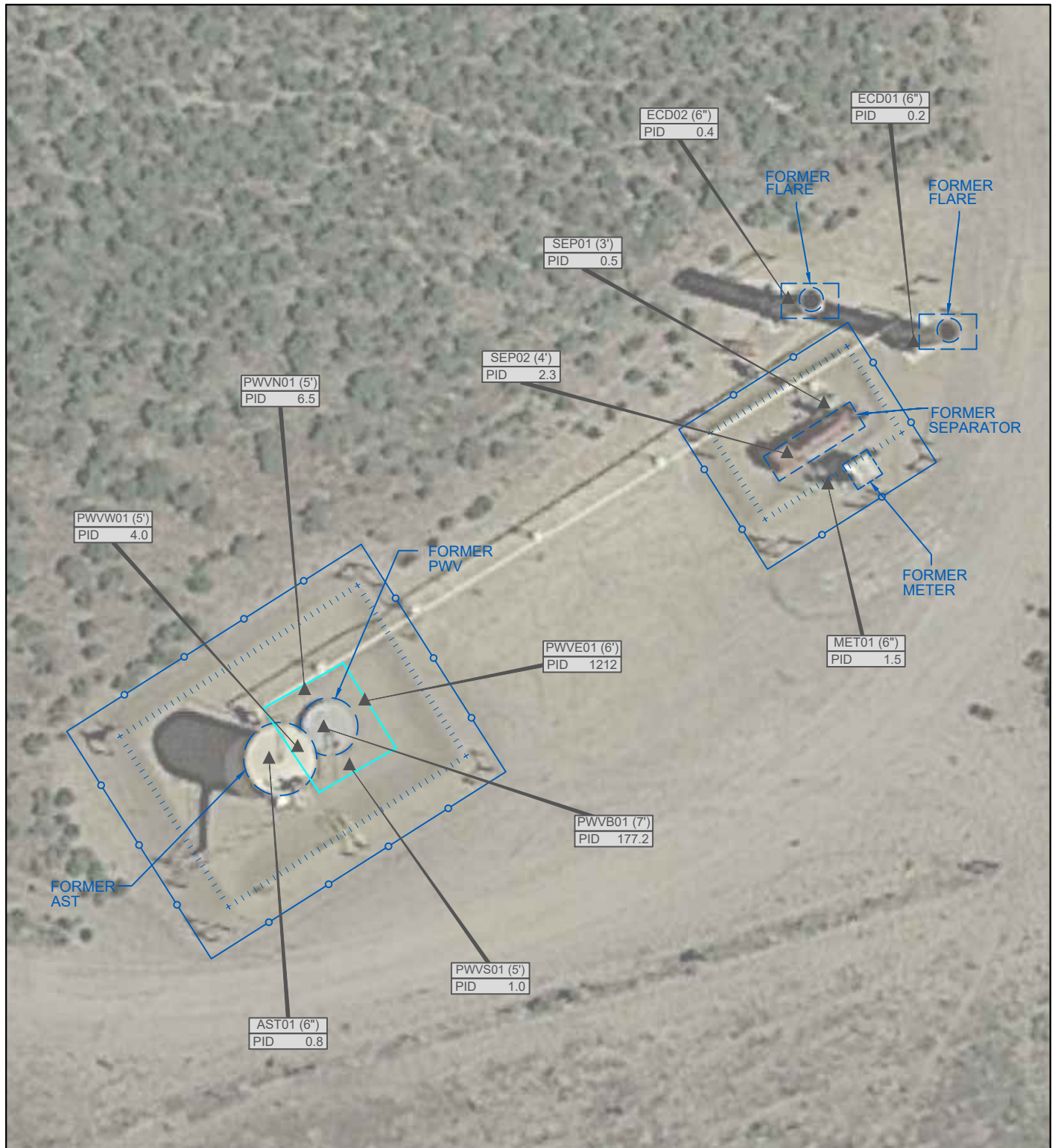
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW
 SWNW Sec. 11, T3N, R65W, 6th PM
 Weld County, Colorado
 40.243751°, -104.636822°

Project # CO23-125	API #	Facility # 332721
Date 08/26/2023	Remediation # 28380	Filename 23125T





LEGEND

- WELLHEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- CONTAINMENT BERM
- FENCE LINE
- EXTENT OF EXCAVATION

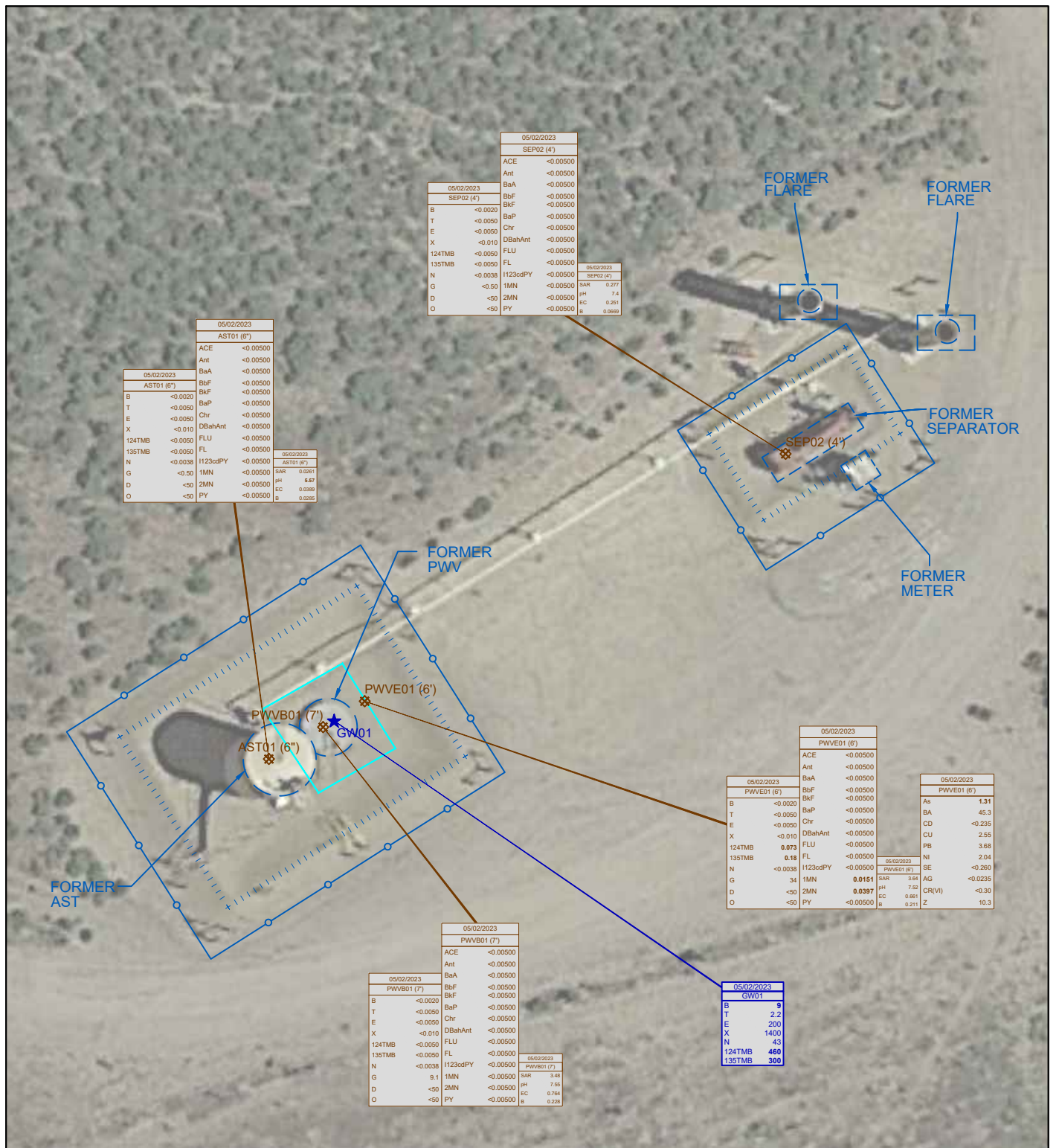
FL01 PID READING LOCATION IDENTIFICATION
 PID 0.1 PHOTO IONIZATION DETECTION (ppm)

**Figure 2
 SITE MAP**

NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW
 SWNW Sec. 11, T3N, R65W, 6th PM
 Weld County, Colorado
 40.243751°, -104.636822°

Project # CO23-125	API #	Facility # 332721
Date 08/26/2023	Remediation # 28380	Filename 23125T





LEGEND

- WELLHEAD LOCATION
- ABOVE GROUND STORAGE TANK
- ✱ SOIL SAMPLE LOCATION
- ★ GROUNDWATER SAMPLE LOCATION
- FORMER FACILITY
- CONTAINMENT BERM
- FENCE LINE
- EXTENT OF EXCAVATION

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
4/7/2023	FL01 (4')	4/7/2023	FL01 (4')
ACE	<0.0050	ACE	<0.0050
Ant	<0.0050	Ant	<0.0050
BaA	<0.0050	BaA	<0.0050
BbF	<0.0050	BbF	<0.0050
BkF	<0.0050	BkF	<0.0050
BaP	<0.0050	BaP	<0.0050
Chr	<0.0050	Chr	<0.0050
DBahAnt	<0.0050	DBahAnt	<0.0050
FLU	<0.0050	FLU	<0.0050
FL	<0.0050	FL	<0.0050
124TMB	<0.0050	124TMB	<0.0050
135TMB	<0.0050	135TMB	<0.0050
N	<0.0038	N	<0.0038
G	<0.50	G	<0.50
D	<50	D	<50
O	<50	O	<50
1MN	<0.0050	1MN	<0.0050
2MN	<0.0050	2MN	<0.0050
PY	<0.0050	PY	<0.0050

**Figure 3
SOIL CHEMISTRY MAP**

NOBLE ENERGY INC - CORNELIUS-63N65W 11SWNW
 SWNW Sec. 11, T3N, R65W, 6th PM
 Weld County, Colorado
 40.243751°, -104.636822°

Project # CO23-125	API #	Facility # 332721
Date 08/26/2023	Remediation # 28380	Filename 23125T

REMONT ENVIRONMENTAL

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
CORNELIUS-63N65W 11SWNW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-125

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"	05/02/2023	6"	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVB01@7'	05/02/2023	7'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.00500	<0.0038	9.1	<50	<50
PWVE01@6'	05/02/2023	6'	<0.0020	<0.0050	<0.0050	<0.010	0.073	0.18	<0.0038	34	<50	<50
SEP02@4'	05/02/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<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

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
CORNELIUS-63N65W 11SWNW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-125

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"	05/02/2023	6"	<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@7'	05/02/2023	7'	<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
PWVE01@6'	05/02/2023	6'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0151	0.0397
SEP02@4'	05/02/2023	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

NA - Not analyzed

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY, INC.
CORNELIUS-63N65W 11SWNW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-125

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"	05/02/2023	6"	5.57	0.0389	0.0261	0.0285
PWVB01@7'	05/02/2023	7'	7.55	0.764	3.48	0.228
PWVE01@6'	05/02/2023	6'	7.52	0.661	3.64	0.211
SEP02@4'	05/02/2023	4'	7.4	0.251	0.277	0.0669

Bold faced values exceed the COGCC Table 915-1 concentrations

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

NA - Not analyzed

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
CORNELIUS-63N65W 11SWNW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-125

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
PWVE01@6'	05/02/2023	6'	1.31	45.3	<0.235	<0.30	2.55	3.68	2.04	<0.260	<0.0235	10.3

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

NA - Not analyzed

TABLE 5
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE ENERGY, INC.
CORNELIUS-63N65W 11SWNW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-125

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
COGCC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
GW01	05/02/2023	9	2.2	200	1400	43	460	300	-	-	-	-

Bold face values exceed the COGCC limits

Red highlighted 915-1 Limits indicate the referenced groundwater screening level

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

Tank Battery Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure	X	Partially Buried Vault Closure
Site Name & COGCC Facility Number: CORNELIUS-63N65W 11SWNW, 332721		Date: 5/2/2023		Remediation Project #: 28380				
Associated Wells: Conelius 11,12-22		Age of Site: Unknown				Number of Photos Attached: See attached		
Location: (GPS coordinates of southeaster berm) 40.243751, -104.636822							Estimated Facility Size (acres):	

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

USCS Soil Type: Sand (SP) Estimated Depth to Groundwater: ~ 8 feet

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
No observed hydrocarbon 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	0.8 ppm							
Soil impacts present at valves or hatches?	None observed							
PID Readings								
Sample taken? Location/ Sample ID#	AST01@6"							
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	0.5 to 2.3 ppm							
Sample taken? Location/ Sample ID#	SEP01@3' & SEP02@4'							
Photo Number(s)	See attached							

Other observations regarding separators

Third Party Equipment

Type	Meter shed							
Age	Unknown							

Third Party	Unknown								
Removal Date	Unknown								
Sample taken?	MET01@6"								
PID Readings	1.5 ppm								
Photo Number(s)	See attached								

Other Facility Equipment

Equipment type	ECD	ECD		
Equipment Condition	Good condition	Good condition		
Age	Unknown	Unknown		
Soil impacts	None observed	None observed		
PID Readings	0.2 ppm	0.4 ppm		
Sample taken?	ECD01@6"	ECD02@6"		
Photo Number(s)	See attached	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: 6	Total number of samples collected: 6
Highest PID Reading: 2.3 ppm	Total number of samples submitted to lab for analysis: 4
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	X	Tank Battery Closure	
Site Name & COGCC Facility Number: CORNELIUS-63N65W 11SWNW, 332721		Date: 5/2/2023				Remediation Project #: 28380			
Associated Wells: Conelius 11,12-22		Age of Site: Unknown				Number of Photos Attached: See attached			
Location: (GPS coordinates of vault or southeastern tank berm for multiple) 40.243751, -104.636822						Estimated Facility Size (acres):			

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

USCS Soil Type: **Sand (SP)** Estimated Depth to Groundwater: **~ 8 feet**

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
Black to grey soil with elevated PID's measured in 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 contents	Grey soil							
PID Readings	177.2 ppm							
Condition of drums/lines	Black soil							
PID Readings	1,212 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?
 No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: **5** Total number of samples collected: **5**

Highest PID Reading: **1,212 ppm** Total number of samples submitted to lab for analysis: **5**

If more than 10 cubic yards of impacted soil were observed: Impacted soil left in place.

Vertical extent: **8 feet** Estimated spill volume: **Unknown**

Lateral extent: **18 feet x 16 feet** Volume of soil removed: **None**

Is additional investigation required? **Yes.**

Was groundwater encountered during the investigation?
 No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater: **~ 8 feet** Was remedial groundwater removal conducted? Yes No

Date Groundwater was encountered: **5/2/2023** Commencement date of removal: **N/A**

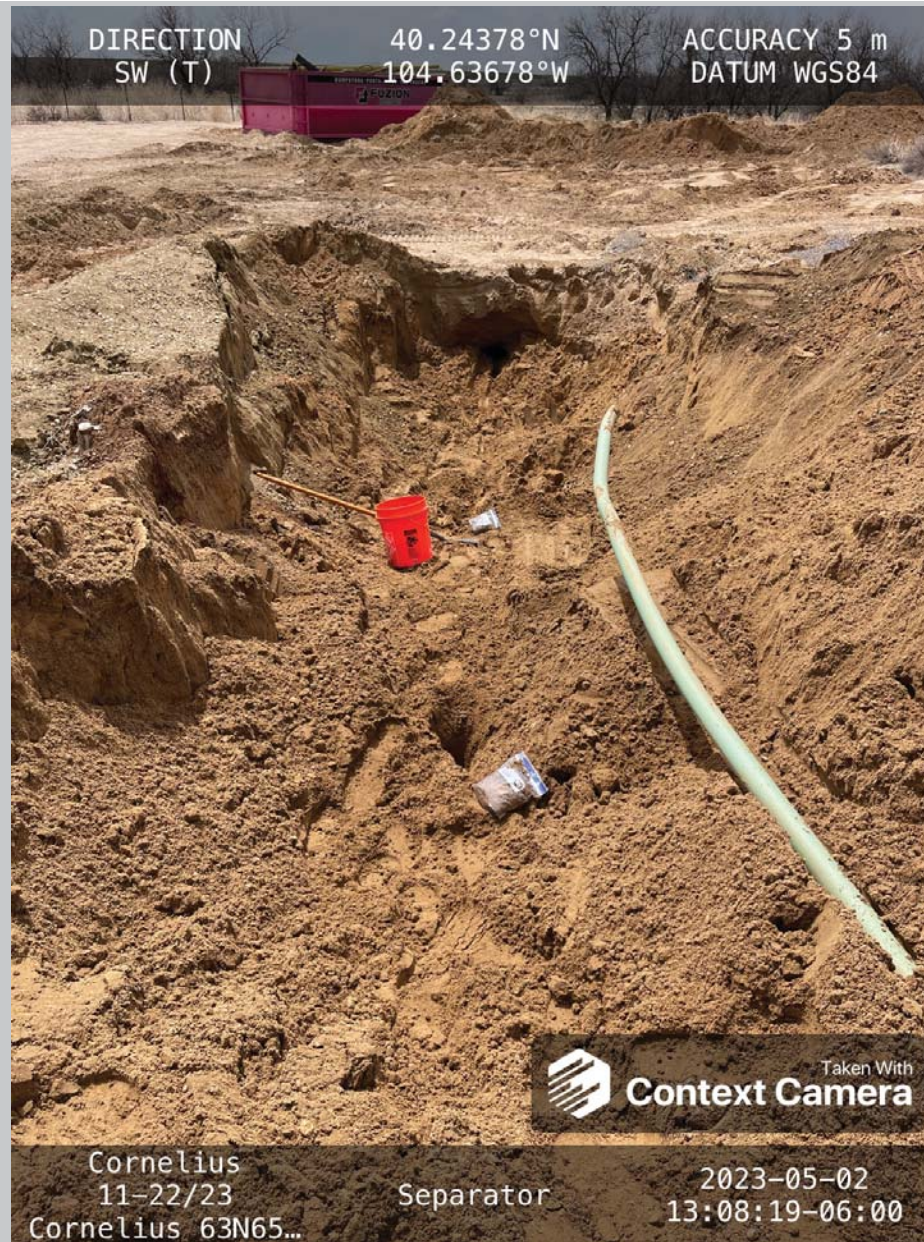
Sheen on groundwater? Yes No Volume of groundwater removed prior to sampling: **0**

Free product observed? Yes No Volume of groundwater removed post sampling: **0**

Total number of samples collected: **1** Total Volume of groundwater removed: **0**

Total number of samples submitted to lab for analysis: **1**

Photo Log



Description:

Separator Excavation Facing SW: SEP02@4' (Far), SEP01@3' (Close)

Photo Log



DIRECTION
N (T)

40.24360°N
104.63721°W

ACCURACY 4 m
DATUM WGS84



Cornelius 11-22/23
Cornelius 63N65W 11S...

AST01

2023-05-02
12:25:54-06:00

Description:

AST01@6"

Photo Log



DIRECTION
SW (T)

40.24368°N
104.63710°W

ACCURACY 5 m
DATUM WGS84



Taken With
Context Camera

Cornelius 11-22/23
Cornelius 63N65W 11S...

PWV Excavation

2023-05-02
12:52:29-06:00

Description:

PWV Excavation Facing SW

Photo Log

DIRECTION
SE (T)

40.24366°N
104.63718°W

ACCURACY 5 m
DATUM WGS84



Taken With
Context Camera

Cornelius 11-22/23
Cornelius 63N65W 11S...

PWV Excavation

2023-05-02
12:25:15-06:00

Description:

PWV Excavation Facing SE

Photo Log



DIRECTION
NW (T)

40.24361°N
104.63704°W

ACCURACY 5 m
DATUM WGS84



Cornelius 11-22/23
Cornelius 63N65W 11S...

PWV Excavation

2023-05-02
12:52:15-06:00

Description:

PWV Excavation Facing NW

Photo Log



Description:

GW01

Photo Log

DIRECTION
N (T)

40.24372°N
104.63678°W

ACCURACY 5 m
DATUM WGS84



Taken With
Context Camera

Cornelius 11-22/23
Cornelius 63N65W 11S...

MET01

2023-05-02
13:11:05-06:00

Description:

MET01@6"

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

May 30, 2023

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Cornelius TBN-RG5W-S11 L01

Work Order # 2305135

Enclosed are the results of analyses for samples received by Summit Scientific on 05/04/23 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: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
11-22 FL01@3.5'	2305135-01	Soil	05/02/23 00:00	05/04/23 16:30
11-23 FL01@3.5'	2305135-02	Soil	05/02/23 00:00	05/04/23 16:30
PWVE01@6'	2305135-03	Soil	05/02/23 00:00	05/04/23 16:30
PWVB01@7'	2305135-04	Soil	05/02/23 00:00	05/04/23 16:30
SEP02@4'	2305135-05	Soil	05/02/23 00:00	05/04/23 16:30
AST01@6''	2305135-06	Soil	05/02/23 00:00	05/04/23 16:30
GW01	2305135-07	Water	05/02/23 00:00	05/04/23 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.

2305/35

Summit Scientific

S₂

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: Cornelius T3N-R65W-S11 LØ1

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	PAH (915)	Metals (915)	TDS, Chloride, Sulfate	TPH	HOLD		
1	11-22 FLØ1 @ 3.5'	5/2/23		1			X			X			X	X	X		X		
2	11-23 FLØ1 @ 3.5'			1															
3	PWVEØ1 @ 6'			1															
4	PWVBØ1 @ 7'			1															
5	SEPØ2 @ 4'			1															
6	ASTØ1 @ 6"	5/2/23		2			X			X			X	X			X		
7	GWØ1	5/2/23		4	X				X				X						
8																			
9																			
10																			

Relinquished by: Chris Lattes	Date/Time: 5/4/23 13:00	Received by: [Signature]	Date/Time: 5/4/23 13:00	Turn Around Time (Check):	Notes:
Relinquished by: [Signature]	Date/Time: 5/4/23 1630	Received by: [Signature]	Date/Time: 5/4/23 1630	Same Day _____ 72 hours _____	Facs + 11-22 & 11-23 WH/FL - VAS after vesicles a lot due to HCL, hard to get no head space
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours _____ Standard <input checked="" type="checkbox"/>	
				48 hours _____	
				Sample Integrity: Temperature Upon Receipt: 8.6	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2305135

Client: Fremont Client Project ID: Cornelius T3N-R05W-511101

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

[] - [] [] []

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

Temp (°C) 8.6

Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ice
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)	-			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	-			
Were all samples received intact? (1)	✓			
Was adequate sample volume provided? (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)	✓			
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.	✓			HCl
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.

AS

Custodian Printed Name

5/4/23

Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

11-22 FL01@3.5'
2305135-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGE0263	05/08/23	05/09/23	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: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0264	05/08/23	05/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		79.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

11-22 FL01@3.5'
2305135-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGE0229	05/08/23	05/08/23	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: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		83.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		96.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0697	0.0100		mg/L	1	BGE0457	05/13/23	05/16/23	EPA 6020B	

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

Date Sampled: **05/02/23 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

11-22 FL01@3.5'
2305135-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	81.3	0.0541		mg/L dry	1	BGE0350	05/10/23	05/14/23	EPA 6020B	
Magnesium	41.4	0.0541		"	"	"	"	"	"	
Sodium	3.21	0.0541		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0723	0.00100		units	1	BGE0466	05/14/23	05/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4			%	1	BGE0426	05/12/23	05/12/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.207	0.0100		mmhos/cm	1	BGE0382	05/11/23	05/12/23	EPA 120.1	

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

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.44			pH Units	1	BGE0383	05/11/23	05/12/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

11-23 FL01@3.5'
2305135-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/02/23 00:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0263	05/08/23	05/09/23	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: 05/02/23 00:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		91.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/02/23 00:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0264	05/08/23	05/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: 05/02/23 00:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		84.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

11-23 FL01@3.5'
2305135-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGE0229	05/08/23	05/08/23	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: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		80.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		97.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0611	0.0100		mg/L	1	BGE0457	05/13/23	05/16/23	EPA 6020B	

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

Date Sampled: **05/02/23 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

11-23 FL01@3.5'
2305135-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	61.9	0.0538		mg/L dry	1	BGE0350	05/10/23	05/14/23	EPA 6020B	
Magnesium	28.7	0.0538		"	"	"	"	"	"	
Sodium	2.92	0.0538		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0769	0.00100		units	1	BGE0466	05/14/23	05/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0			%	1	BGE0426	05/12/23	05/12/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.147	0.0100		mmhos/cm	1	BGE0382	05/11/23	05/12/23	EPA 120.1	

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

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.03			pH Units	1	BGE0383	05/11/23	05/12/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

PWVE01@6'
2305135-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGE0263	05/08/23	05/09/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	05/09/23	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	05/09/23	"	
1,2,4-Trimethylbenzene	0.073	0.050		"	10	"	"	"	"	
1,3,5-Trimethylbenzene	0.18	0.050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	1	"	"	05/09/23	"	
Gasoline Range Hydrocarbons	34	0.50		"	"	"	"	"	"	

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		71.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		144 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0264	05/08/23	05/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

PWVE01@6'
2305135-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGE0229	05/08/23	05/08/23	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	0.0151	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.0397	0.00500		"	"	"	"	"	"	

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		71.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		86.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.211	0.0100		mg/L	1	BGE0457	05/13/23	05/16/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/02/23 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

PWVE01@6'
2305135-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.31	0.235		mg/kg dry	1	BGE0773	05/22/23	05/25/23	EPA 6020B	
Barium	45.3	0.471		"	"	"	"	"	"	
Cadmium	ND	0.235		"	"	"	"	"	"	
Copper	2.55	0.471		"	"	"	"	"	"	
Lead	3.68	0.235		"	"	"	"	"	"	
Nickel	2.04	0.471		"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	
Silver	ND	0.0235		"	"	"	"	"	"	
Zinc	10.3	0.471		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 05/02/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGE0655	05/18/23	05/18/23	EPA 7196A	

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

Date Sampled: 05/02/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.4	0.0588		mg/L dry	1	BGE0350	05/10/23	05/14/23	EPA 6020B	
Magnesium	14.9	0.0588		"	"	"	"	"	"	
Sodium	79.3	0.0588		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 05/02/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.64	0.00100		units	1	BGE0466	05/14/23	05/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

PWVE01@6'
2305135-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	85.0			%	1	BGE0426	05/12/23	05/12/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.661	0.0100		mmhos/cm	1	BGE0382	05/11/23	05/12/23	EPA 120.1	

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

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.52			pH Units	1	BGE0383	05/11/23	05/12/23	EPA 9045D	

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: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

PWVB01@7'
2305135-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0263	05/08/23	05/09/23	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	9.1	0.50		"	"	"	"	"	"	

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		90.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		85.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		136 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0264	05/08/23	05/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		92.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

PWVB01@7'
2305135-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGE0229	05/08/23	05/08/23	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: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		93.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.228	0.0100		mg/L	1	BGE0457	05/13/23	05/16/23	EPA 6020B	

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

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	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: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

PWVB01@7'
2305135-04 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.2	0.0624		mg/L dry	1	BGE0350	05/10/23	05/14/23	EPA 6020B	
Magnesium	16.1	0.0624		"	"	"	"	"	"	
Sodium	83.5	0.0624		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.48	0.00100		units	1	BGE0466	05/14/23	05/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.1			%	1	BGE0426	05/12/23	05/12/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.764	0.0100		mmhos/cm	1	BGE0382	05/11/23	05/12/23	EPA 120.1	

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

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.55			pH Units	1	BGE0383	05/11/23	05/12/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

SEP02@4'
2305135-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGE0263	05/08/23	05/09/23	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: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0264	05/08/23	05/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		80.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

SEP02@4'
2305135-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGE0229	05/08/23	05/08/23	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: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		78.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		92.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0669	0.0100		mg/L	1	BGE0457	05/13/23	05/16/23	EPA 6020B	

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

Date Sampled: **05/02/23 00:00**

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

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

SEP02@4'
2305135-05 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.7	0.0559		mg/L dry	1	BGE0350	05/10/23	05/14/23	EPA 6020B	
Magnesium	8.79	0.0559		"	"	"	"	"	"	
Sodium	5.34	0.0559		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.277	0.00100		units	1	BGE0466	05/14/23	05/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4			%	1	BGE0426	05/12/23	05/12/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.251	0.0100		mmhos/cm	1	BGE0382	05/11/23	05/12/23	EPA 120.1	

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

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.40			pH Units	1	BGE0383	05/11/23	05/12/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

AST01@6''
2305135-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0263	05/08/23	05/09/23	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: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		96.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0264	05/08/23	05/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		82.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

**AST01@6''
2305135-06 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGE0229	05/08/23	05/08/23	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: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		74.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		94.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0285	0.0100		mg/L	1	BGE0457	05/13/23	05/16/23	EPA 6020B	

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

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	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: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

**AST01@6''
 2305135-06 (Soil)**

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.5	0.0530		mg/L dry	1	BGE0350	05/10/23	05/14/23	EPA 6020B	
Magnesium	18.4	0.0530		"	"	"	"	"	"	
Sodium	0.780	0.0530		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0261	0.00100		units	1	BGE0466	05/14/23	05/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.3			%	1	BGE0426	05/12/23	05/12/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0389	0.0100		mmhos/cm	1	BGE0382	05/11/23	05/12/23	EPA 120.1	

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

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.57			pH Units	1	BGE0383	05/11/23	05/12/23	EPA 9045D	

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: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

GW01
2305135-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	9.0	1.0		ug/l	1	BGE0176	05/05/23	05/10/23	EPA 8260B	
Toluene	2.2	1.0		"	"	"	"	"	"	
Ethylbenzene	200	1.0		"	"	"	"	"	"	
Xylenes (total)	1400	2.0		"	"	"	"	"	"	E
Naphthalene	43	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	460	1.0		"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	300	1.0		"	"	"	"	"	"	E

Date Sampled: **05/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		119 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		89.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		121 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGE0176 - EPA 5030 Water MS

Blank (BGE0176-BLK1)

Prepared: 05/05/23 Analyzed: 05/10/23

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.2		"	13.3		107	23-173			
<i>Surrogate: Toluene-d8</i>	13.1		"	13.3		98.1	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.7		"	13.3		110	21-167			

LCS (BGE0176-BS1)

Prepared: 05/05/23 Analyzed: 05/10/23

Benzene	42.3	1.0	ug/l	41.7		101	51-132			
Toluene	39.4	1.0	"	41.7		94.6	51-138			
Ethylbenzene	37.3	1.0	"	41.7		89.4	58-146			
m,p-Xylene	73.1	2.0	"	83.3		87.8	57-144			
o-Xylene	33.4	1.0	"	41.7		80.2	53-146			
Naphthalene	48.2	1.0	"	41.7		116	70-130			
1,2,4-Trimethylbenzene	36.1	1.0	"	41.7		86.7	70-130			
1,3,5-Trimethylbenzene	37.7	1.0	"	41.7		90.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.3		"	13.3		107	23-173			
<i>Surrogate: Toluene-d8</i>	13.5		"	13.3		101	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.2		"	13.3		106	21-167			

Matrix Spike (BGE0176-MS1)

Source: 2305094-03

Prepared: 05/05/23 Analyzed: 05/10/23

Benzene	42.4	1.0	ug/l	41.7	ND	102	34-141			
Toluene	39.2	1.0	"	41.7	ND	94.0	27-151			
Ethylbenzene	37.4	1.0	"	41.7	ND	89.8	29-160			
m,p-Xylene	73.2	2.0	"	83.3	ND	87.8	20-166			
o-Xylene	32.7	1.0	"	41.7	ND	78.5	33-159			
Naphthalene	54.3	1.0	"	41.7	ND	130	70-130			
1,2,4-Trimethylbenzene	36.0	1.0	"	41.7	ND	86.3	70-130			
1,3,5-Trimethylbenzene	37.3	1.0	"	41.7	ND	89.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	15.0		"	13.3		112	23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		98.9	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.9		"	13.3		104	21-167			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

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		

Batch BGE0176 - EPA 5030 Water MS

Matrix Spike Dup (BGE0176-MSD1)

Source: 2305094-03

Prepared: 05/05/23 Analyzed: 05/10/23

Benzene	40.5	1.0	ug/l	41.7	ND	97.2	34-141	4.46	30
Toluene	37.2	1.0	"	41.7	ND	89.4	27-151	5.05	30
Ethylbenzene	37.5	1.0	"	41.7	ND	90.0	29-160	0.133	30
m,p-Xylene	72.6	2.0	"	83.3	ND	87.1	20-166	0.741	30
o-Xylene	32.8	1.0	"	41.7	ND	78.8	33-159	0.458	30
Naphthalene	52.4	1.0	"	41.7	ND	126	70-130	3.43	30
1,2,4-Trimethylbenzene	36.2	1.0	"	41.7	ND	86.8	70-130	0.554	30
1,3,5-Trimethylbenzene	37.3	1.0	"	41.7	ND	89.5	70-130	0.107	30
Surrogate: 1,2-Dichloroethane-d4	15.1		"	13.3		113	23-173		
Surrogate: Toluene-d8	12.9		"	13.3		96.6	20-170		
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		103	21-167		

Batch BGE0263 - EPA 5030 Soil MS

Blank (BGE0263-BLK1)

Prepared: 05/08/23 Analyzed: 05/09/23

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	0.0374		"	0.0400		93.6	50-150		
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150		
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	50-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

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 BGE0263 - EPA 5030 Soil MS

LCS (BGE0263-BS1)

Prepared: 05/08/23 Analyzed: 05/09/23

Benzene	0.134	0.0020	mg/kg	0.150		89.0	70-130			
Toluene	0.137	0.0050	"	0.150		91.1	70-130			
Ethylbenzene	0.145	0.0050	"	0.150		96.5	70-130			
m,p-Xylene	0.272	0.010	"	0.300		90.7	70-130			
o-Xylene	0.144	0.0050	"	0.150		95.9	70-130			
1,2,4-Trimethylbenzene	0.118	0.0050	"	0.150		78.5	70-130			
1,3,5-Trimethylbenzene	0.118	0.0050	"	0.150		78.7	70-130			
Naphthalene	0.132	0.0038	"	0.150		88.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0545		"	0.0400		136	50-150			
Surrogate: Toluene-d8	0.0309		"	0.0400		77.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0444		"	0.0400		111	50-150			

Matrix Spike (BGE0263-MS1)

Source: 2305101-01

Prepared: 05/08/23 Analyzed: 05/09/23

Benzene	0.137	0.0020	mg/kg	0.150	ND	91.2	70-130			
Toluene	0.137	0.0050	"	0.150	ND	91.5	70-130			
Ethylbenzene	0.144	0.0050	"	0.150	ND	96.3	70-130			
m,p-Xylene	0.273	0.010	"	0.300	ND	91.2	70-130			
o-Xylene	0.142	0.0050	"	0.150	ND	94.7	70-130			
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.150	ND	76.8	70-130			
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.150	ND	77.0	70-130			
Naphthalene	0.133	0.0038	"	0.150	ND	88.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0584		"	0.0400		146	50-150			
Surrogate: Toluene-d8	0.0314		"	0.0400		78.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0447		"	0.0400		112	50-150			

Matrix Spike Dup (BGE0263-MSD1)

Source: 2305101-01

Prepared: 05/08/23 Analyzed: 05/09/23

Benzene	0.144	0.0020	mg/kg	0.150	ND	95.8	70-130	4.92	30	
Toluene	0.144	0.0050	"	0.150	ND	96.2	70-130	4.97	30	
Ethylbenzene	0.151	0.0050	"	0.150	ND	101	70-130	4.53	30	
m,p-Xylene	0.283	0.010	"	0.300	ND	94.3	70-130	3.39	30	
o-Xylene	0.146	0.0050	"	0.150	ND	97.4	70-130	2.81	30	
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.150	ND	75.2	70-130	2.16	30	
1,3,5-Trimethylbenzene	0.114	0.0050	"	0.150	ND	76.3	70-130	0.965	30	
Naphthalene	0.131	0.0038	"	0.150	ND	87.0	70-130	1.71	30	
Surrogate: 1,2-Dichloroethane-d4	0.0531		"	0.0400		133	50-150			
Surrogate: Toluene-d8	0.0353		"	0.0400		88.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0498		"	0.0400		125	50-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

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 BGE0264 - EPA 3550A

Blank (BGE0264-BLK1)

Prepared: 05/08/23 Analyzed: 05/09/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.3		"	12.5		82.6	30-150				

LCS (BGE0264-BS1)

Prepared: 05/08/23 Analyzed: 05/09/23

C10-C28 (DRO)	628	50	mg/kg	500		126	70-130				
Surrogate: <i>o</i> -Terphenyl	9.71		"	12.5		77.7	30-150				

Matrix Spike (BGE0264-MS1)

Source: 2305101-01

Prepared: 05/08/23 Analyzed: 05/09/23

C10-C28 (DRO)	630	50	mg/kg	500	14.7	123	70-130				
Surrogate: <i>o</i> -Terphenyl	10.9		"	12.5		87.3	30-150				

Matrix Spike Dup (BGE0264-MSD1)

Source: 2305101-01

Prepared: 05/08/23 Analyzed: 05/09/23

C10-C28 (DRO)	615	50	mg/kg	500	14.7	120	70-130	2.53	20		
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5		89.4	30-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BGE0229 - EPA 5030 Soil MS

Blank (BGE0229-BLK1)

Prepared & Analyzed: 05/08/23

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>0.0379</i>		"	<i>0.0333</i>		<i>114</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0345</i>		"	<i>0.0333</i>		<i>103</i>		<i>40-150</i>		

LCS (BGE0229-BS1)

Prepared & Analyzed: 05/08/23

Acenaphthene	0.0352	0.00500	mg/kg	0.0333	106	31-137
Anthracene	0.0355	0.00500	"	0.0333	106	30-120
Benzo (a) anthracene	0.0376	0.00500	"	0.0333	113	30-120
Benzo (a) pyrene	0.0321	0.00500	"	0.0333	96.4	30-120
Benzo (b) fluoranthene	0.0319	0.00500	"	0.0333	95.7	30-120
Benzo (k) fluoranthene	0.0312	0.00500	"	0.0333	93.6	30-120
Chrysene	0.0392	0.00500	"	0.0333	118	30-120
Dibenz (a,h) anthracene	0.0329	0.00500	"	0.0333	98.7	30-120
Fluoranthene	0.0331	0.00500	"	0.0333	99.4	30-120
Fluorene	0.0345	0.00500	"	0.0333	104	30-120
Indeno (1,2,3-cd) pyrene	0.0349	0.00500	"	0.0333	105	30-120
Pyrene	0.0386	0.00500	"	0.0333	116	35-142
1-Methylnaphthalene	0.0259	0.00500	"	0.0333	77.6	35-142
2-Methylnaphthalene	0.0300	0.00500	"	0.0333	89.9	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0294</i>		"	<i>0.0333</i>	<i>88.3</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0347</i>		"	<i>0.0333</i>	<i>104</i>	<i>40-150</i>

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

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 BGE0229 - EPA 5030 Soil MS

Matrix Spike (BGE0229-MS1)	Source: 2305134-01			Prepared & Analyzed: 05/08/23						
Acenaphthene	0.0265	0.00500	mg/kg	0.0333	ND	79.4	31-137			
Anthracene	0.0272	0.00500	"	0.0333	ND	81.6	30-120			
Benzo (a) anthracene	0.0305	0.00500	"	0.0333	ND	91.4	30-120			
Benzo (a) pyrene	0.0279	0.00500	"	0.0333	0.00463	69.9	30-120			
Benzo (b) fluoranthene	0.0288	0.00500	"	0.0333	0.00411	73.9	30-120			
Benzo (k) fluoranthene	0.0249	0.00500	"	0.0333	0.00177	69.3	30-120			
Chrysene	0.0311	0.00500	"	0.0333	0.00185	87.8	30-120			
Dibenz (a,h) anthracene	0.0225	0.00500	"	0.0333	ND	67.4	30-120			
Fluoranthene	0.0269	0.00500	"	0.0333	ND	80.7	30-120			
Fluorene	0.0267	0.00500	"	0.0333	ND	80.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0222	0.00500	"	0.0333	0.00410	54.3	30-120			
Pyrene	0.0311	0.00500	"	0.0333	ND	93.2	35-142			
1-Methylnaphthalene	0.0248	0.00500	"	0.0333	ND	74.5	15-130			
2-Methylnaphthalene	0.0222	0.00500	"	0.0333	ND	66.6	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0273</i>		<i>"</i>	<i>0.0333</i>		<i>82.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0280</i>		<i>"</i>	<i>0.0333</i>		<i>84.0</i>	<i>40-150</i>			

Matrix Spike Dup (BGE0229-MSD1)	Source: 2305134-01			Prepared & Analyzed: 05/08/23						
Acenaphthene	0.0239	0.00500	mg/kg	0.0333	ND	71.7	31-137	10.2	30	
Anthracene	0.0248	0.00500	"	0.0333	ND	74.3	30-120	9.35	30	
Benzo (a) anthracene	0.0281	0.00500	"	0.0333	ND	84.2	30-120	8.19	30	
Benzo (a) pyrene	0.0255	0.00500	"	0.0333	0.00463	62.6	30-120	9.09	30	
Benzo (b) fluoranthene	0.0253	0.00500	"	0.0333	0.00411	63.5	30-120	12.8	30	
Benzo (k) fluoranthene	0.0219	0.00500	"	0.0333	0.00177	60.5	30-120	12.6	30	
Chrysene	0.0291	0.00500	"	0.0333	0.00185	81.7	30-120	6.78	30	
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0333	ND	60.4	30-120	11.0	30	
Fluoranthene	0.0257	0.00500	"	0.0333	ND	77.2	30-120	4.46	30	
Fluorene	0.0239	0.00500	"	0.0333	ND	71.7	30-120	11.1	30	
Indeno (1,2,3-cd) pyrene	0.0202	0.00500	"	0.0333	0.00410	48.2	30-120	9.59	30	
Pyrene	0.0263	0.00500	"	0.0333	ND	78.9	35-142	16.7	30	
1-Methylnaphthalene	0.0358	0.00500	"	0.0333	ND	108	15-130	36.3	50	
2-Methylnaphthalene	0.0246	0.00500	"	0.0333	ND	73.8	15-130	10.3	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0187</i>		<i>"</i>	<i>0.0333</i>		<i>56.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0270</i>		<i>"</i>	<i>0.0333</i>		<i>81.0</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

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 BGE0457 - EPA 3050B

Blank (BGE0457-BLK1)

Prepared: 05/13/23 Analyzed: 05/16/23

Boron ND 0.0100 mg/L

LCS (BGE0457-BS1)

Prepared: 05/13/23 Analyzed: 05/16/23

Boron 4.02 0.0100 mg/L 5.00 80.5 80-120

Duplicate (BGE0457-DUP1)

Source: 2305129-01

Prepared: 05/13/23 Analyzed: 05/16/23

Boron 0.150 0.0100 mg/L 0.172 13.9 20

Matrix Spike (BGE0457-MS1)

Source: 2305129-01

Prepared: 05/13/23 Analyzed: 05/16/23

Boron 4.61 0.0100 mg/L 5.00 0.172 88.7 75-125

Matrix Spike Dup (BGE0457-MSD1)

Source: 2305129-01

Prepared: 05/13/23 Analyzed: 05/16/23

Boron 4.15 0.0100 mg/L 5.00 0.172 79.6 75-125 10.4 25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGE0773 - EPA 3050B

Blank (BGE0773-BLK1)

Prepared: 05/22/23 Analyzed: 05/25/23

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

LCS (BGE0773-BS1)

Prepared: 05/22/23 Analyzed: 05/25/23

Arsenic	38.4	0.200	mg/kg wet	40.0	95.9	80-120
Barium	34.1	0.400	"	40.0	85.2	80-120
Cadmium	1.65	0.200	"	2.00	82.3	80-120
Copper	32.1	0.400	"	40.0	80.2	80-120
Lead	16.6	0.200	"	20.0	83.0	80-120
Nickel	32.0	0.400	"	40.0	80.0	80-120
Selenium	4.14	0.260	"	4.00	103	80-120
Silver	1.63	0.0200	"	2.00	81.6	80-120
Zinc	32.6	0.400	"	40.0	81.6	80-120

Duplicate (BGE0773-DUP1)

Source: 2305082-18

Prepared: 05/22/23 Analyzed: 05/25/23

Arsenic	7.14	0.225	mg/kg dry	7.39	3.45	20
Barium	78.7	0.449	"	80.9	2.71	20
Cadmium	0.287	0.225	"	0.286	0.313	20
Copper	4.68	0.449	"	4.88	4.27	20
Lead	10.2	0.225	"	10.5	3.11	20
Nickel	6.58	0.449	"	6.59	0.164	20
Selenium	1.21	0.260	"	1.39	13.8	20
Silver	0.0791	0.0225	"	0.0867	9.21	20
Zinc	24.2	0.449	"	25.8	6.48	20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGE0773 - EPA 3050B

Matrix Spike (BGE0773-MS1)	Source: 2305082-18			Prepared: 05/22/23 Analyzed: 05/25/23								
Arsenic	53.1	0.225	mg/kg dry	44.9	7.39	102	75-125					
Barium	112	0.449	"	44.9	80.9	69.0	75-125					QM-05
Cadmium	2.19	0.225	"	2.25	0.286	84.9	75-125					
Copper	24.9	0.449	"	44.9	4.88	44.5	75-125					QM-05
Lead	29.8	0.225	"	22.5	10.5	85.8	75-125					
Nickel	27.7	0.449	"	44.9	6.59	47.0	75-125					QM-05
Selenium	8.30	0.260	"	4.49	1.39	154	75-125					QM-05
Silver	2.00	0.0225	"	2.25	0.0867	84.9	75-125					
Zinc	48.9	0.449	"	44.9	25.8	51.2	75-125					QM-05

Matrix Spike Dup (BGE0773-MSD1)	Source: 2305082-18			Prepared: 05/22/23 Analyzed: 05/25/23								
Arsenic	54.8	0.225	mg/kg dry	44.9	7.39	106	75-125	3.25	25			
Barium	118	0.449	"	44.9	80.9	82.6	75-125	5.35	25			
Cadmium	2.32	0.225	"	2.25	0.286	90.5	75-125	5.57	25			
Copper	25.3	0.449	"	44.9	4.88	45.5	75-125	1.75	25			QM-05
Lead	31.0	0.225	"	22.5	10.5	91.2	75-125	3.97	25			
Nickel	28.2	0.449	"	44.9	6.59	48.0	75-125	1.58	25			QM-05
Selenium	8.21	0.260	"	4.49	1.39	152	75-125	1.08	25			QM-05
Silver	2.07	0.0225	"	2.25	0.0867	88.2	75-125	3.63	25			
Zinc	49.4	0.449	"	44.9	25.8	52.4	75-125	1.05	25			QM-05

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGE0655 - 3060A Mod

Blank (BGE0655-BLK1)

Prepared & Analyzed: 05/18/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGE0655-BS1)

Prepared & Analyzed: 05/18/23

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.4 80-120

Duplicate (BGE0655-DUP1)

Source: 2305126-01

Prepared & Analyzed: 05/18/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGE0655-MS1)

Source: 2305126-01

Prepared & Analyzed: 05/18/23

Chromium, Hexavalent 25.4 0.30 mg/kg dry 27.1 ND 93.8 75-125

Matrix Spike Dup (BGE0655-MSD1)

Source: 2305126-01

Prepared & Analyzed: 05/18/23

Chromium, Hexavalent 25.5 0.30 mg/kg dry 27.1 ND 94.0 75-125 0.213 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

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 BGE0350 - General Preparation

Blank (BGE0350-BLK1)

Prepared: 05/10/23 Analyzed: 05/13/23

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

LCS (BGE0350-BS1)

Prepared: 05/10/23 Analyzed: 05/13/23

Calcium	6.14	0.0500	mg/L wet	5.00		123	70-130			
Magnesium	4.93	0.0500	"	5.00		98.6	70-130			
Sodium	5.06	0.0500	"	5.00		101	70-130			

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Cornelius TBN-RG5W-S11 L01 Project Number: [none] Project Manager: Paul Henehan	Reported: 05/30/23 12:16
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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BGE0426 - General Preparation

Duplicate (BGE0426-DUP1)	Source: 2305123-01		Prepared & Analyzed: 05/12/23									
% Solids	92.6		%		92.3				0.335		20	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

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

Summit Scientific

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

Batch BGE0382 - General Preparation

Blank (BGE0382-BLK1)

Prepared: 05/11/23 Analyzed: 05/12/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGE0382-BS1)

Prepared: 05/11/23 Analyzed: 05/12/23

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

Duplicate (BGE0382-DUP1)

Source: 2305135-01

Prepared: 05/11/23 Analyzed: 05/12/23

Specific Conductance (EC) 0.208 0.0100 mmhos/cm 0.207 0.241 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 05/30/23 12:16

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 BGE0383 - General Preparation

LCS (BGE0383-BS1)

Prepared: 05/11/23 Analyzed: 05/12/23

pH	9.00	pH Units	9.18	98.0	95-105
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Duplicate (BGE0383-DUP1)

Source: 2305100-40

Prepared: 05/11/23 Analyzed: 05/12/23

pH	7.87	pH Units	8.06	2.39	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Cornelius TBN-RG5W-S11 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/30/23 12:16

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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