

FREMONT ENVIRONMENTAL INC.

May 23, 2023

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

Subject: **Facility Closure Data Submittal**
Leonard-64N64W 21NESW Facility
Facility ID: 322655
NWSE Sec. 21, T4N, R64W
Weld County, Colorado
Fremont Project No. C023-087
Remediation # 25226

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted facility abandonment activities at the Noble Energy Inc. (Noble) Leonard-64N64W 21NESW Facility. Details of the facility abandonment activities are documented in the attached Closure Report. The soil sample collected from the AST footprint (AST01@6") was reported with a pH below the regulatory limit. 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,

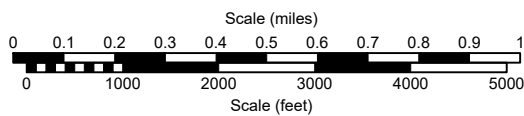
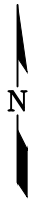
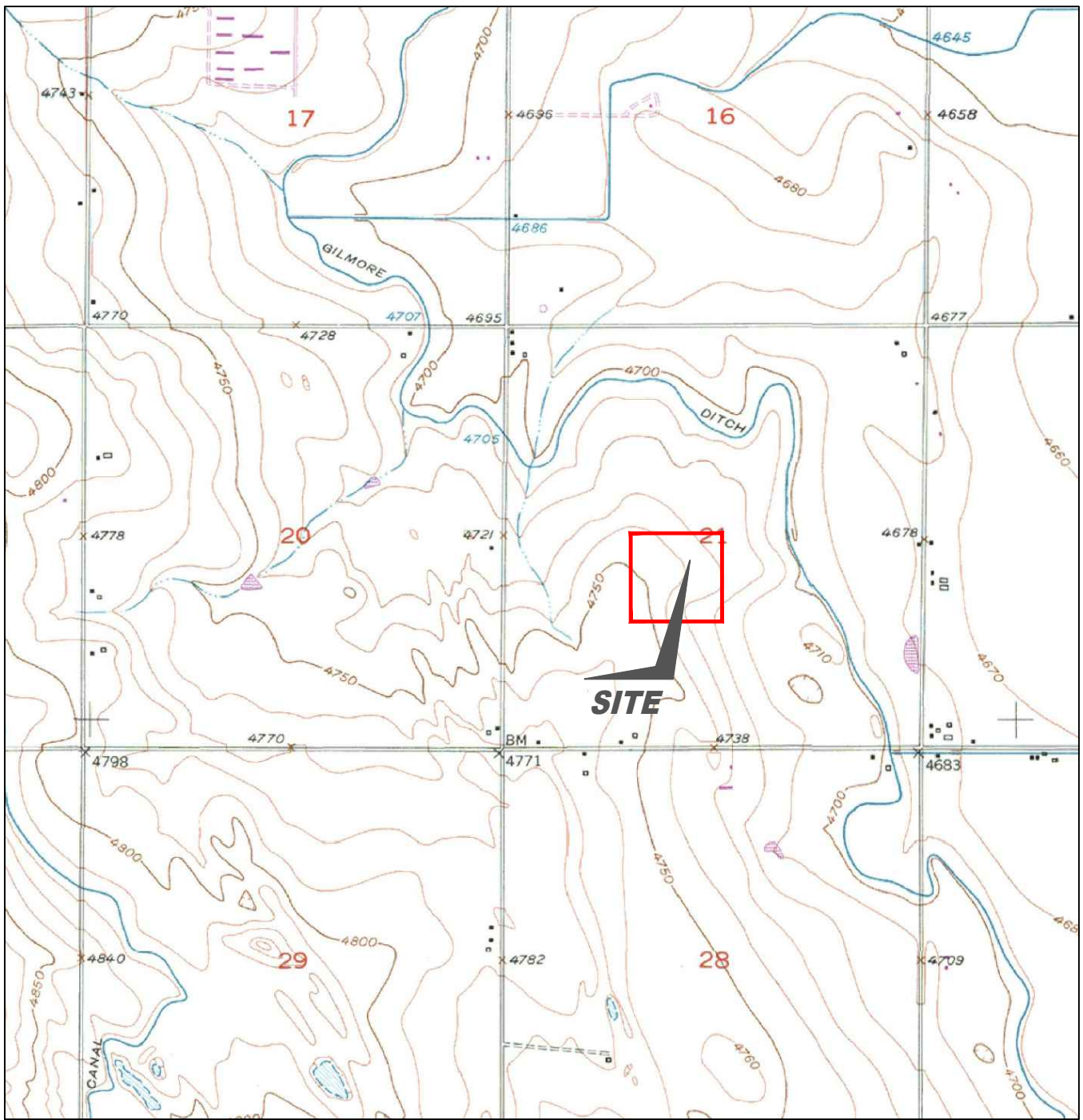
FREMONT ENVIRONMENTAL INC.



Chris Lattes
Consultant

Attachments:

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



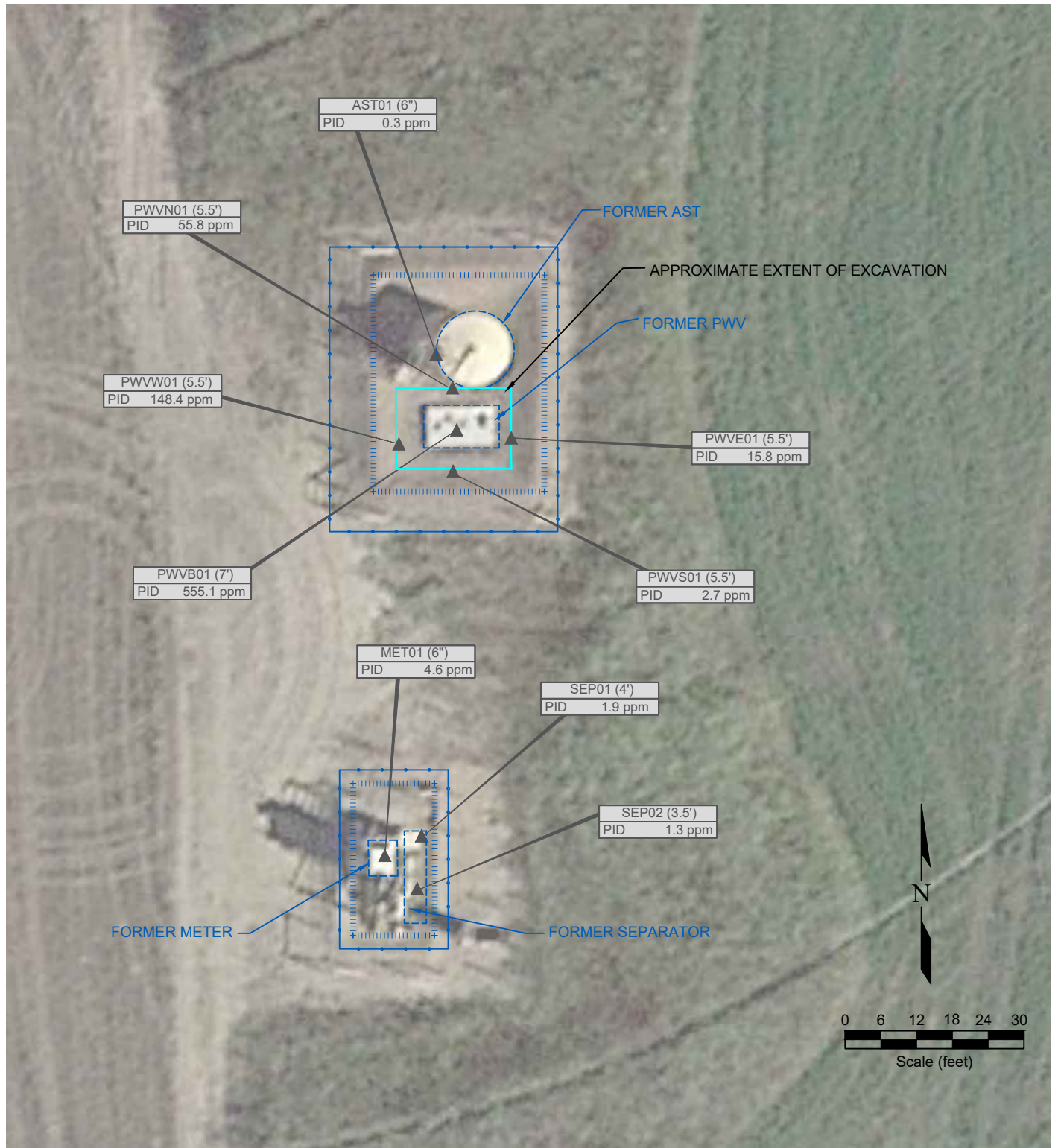
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY INC - LEONARD-64N64W 21NESW
 NESW Sec. 21, T4N, R64W, 6th PM
 Weld County, Colorado
 40.296352°, -104.558163°

Project # CO23-087	API #	Facility # 322655
Date 7/25/23	Remediation # 25226	Filename 23087T2





LEGEND

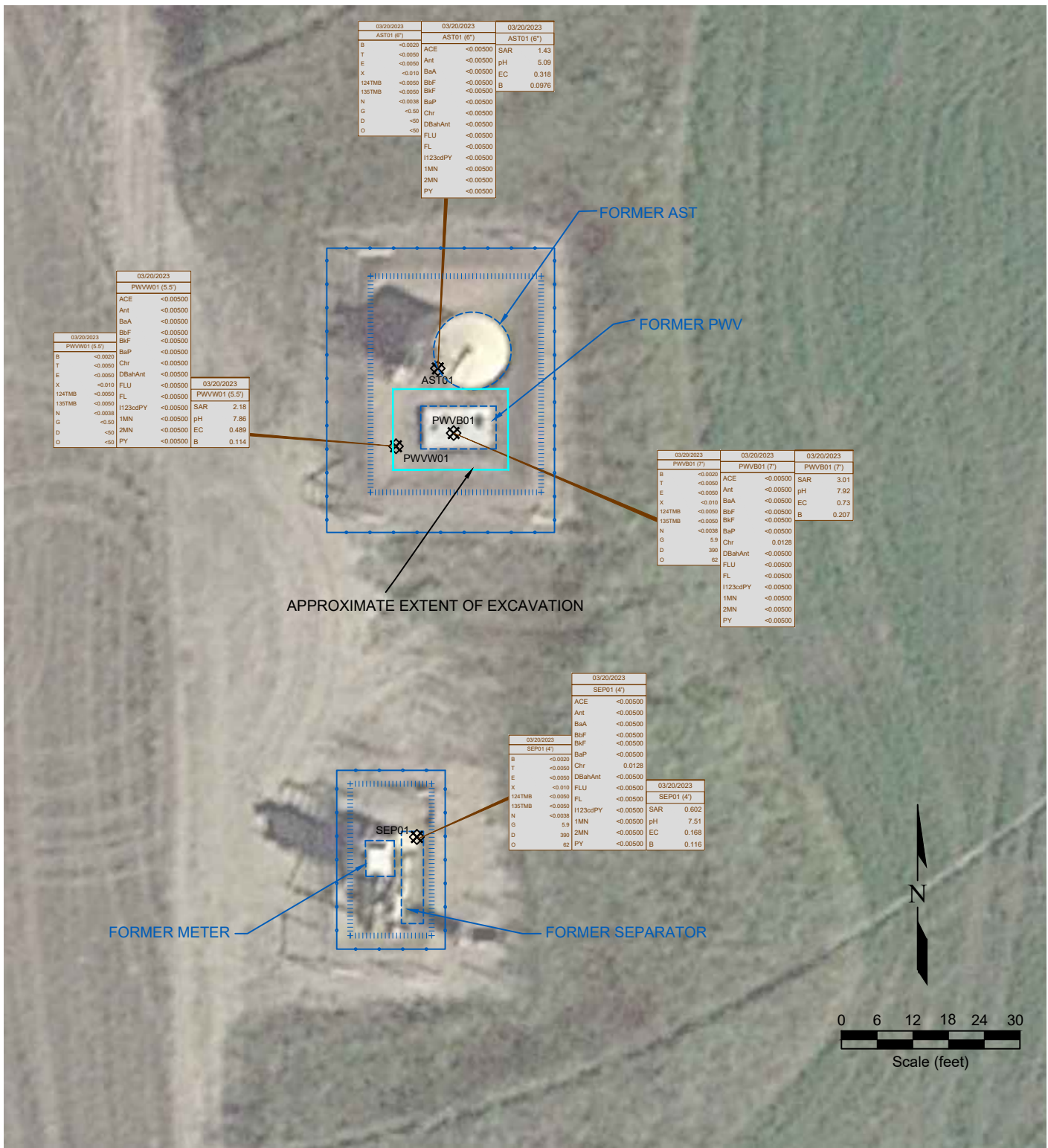
- WELLHEAD LOCATION
 - ▲ PID READING LOCATION
 - ABOVE GROUND STORAGE TANK
 - FORMER FACILITY
 - EXTENT OF EXCAVATION
 - CONTAINMENT BERM
 - FENCE LINE
- FL01
PID 0.1 ppm
- PID READING LOCATION IDENTIFICATION
PHOTO IONIZATION DETECTION (ppm)

**Figure 2
SITE MAP**

NOBLE ENERGY INC - LEONARD-64N64W 21NESW
 NESW Sec. 21, T4N, R64W, 6th PM
 Weld County, Colorado
 40.296352°, -104.558163°

Project No. CO23-087	API #	Facility # 322655
Date 7/25/23	Remediation # 25226	Filename 23087QTB





LEGEND

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

12/16/2022 FL01 (4)	DATE SAMPLED SAMPLE ID and DEPTH (ft)	12/16/2022 FL01 (4)	DATE SAMPLED SAMPLE ID and DEPTH (ft)	12/16/2022 FL01 (4)	DATE SAMPLED SAMPLE ID & DEPTH (ft)
ACE	<0.0050	ACE	<0.0050	SAR	0.992
Ant	<0.0050	Ant	<0.0050	pH	6.94
BaA	<0.0050	BaA	<0.0050	EC	0.361
BbF	<0.0050	BbF	<0.0050	B	0.275
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		
I123cdPY	<0.0050	I123cdPY	<0.0050		
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 - LEONARD-64N64W 21NESW
NESW Sec. 21, T4N, R64W, 6th PM
Weld County, Colorado
40.296352°, -104.558163°**

Project No. CO23-087	API #	Facility # 322655
Date 7/25/23	Remediation # 25226	Filename 23087QTB

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
LEONARD-64N64W 21NESW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-087

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"	03/20/2023	6"	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVB01@7'	03/20/2023	7'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	5.9	390	62
PWVW01@5.5'	03/20/2023	5.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP01@4'	03/20/2023	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.
LEONARD-64N64W 21NESW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-087

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"	03/20/2023	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'	03/20/2023	7'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0128	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWVW01@5.5'	03/20/2023	5.5'	<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
SEP01@4'	03/20/2023	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.
LEONARD-64N64W 21NESW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-087

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"	03/20/2023	6"	5.09	0.318	1.43	0.0976
PWVB01@7'	03/20/2023	7'	7.92	0.73	3.01	0.207
PWVW01@5.5'	03/20/2023	5.5'	7.86	0.489	2.18	0.114
SEP01@4'	03/20/2023	4'	7.51	0.168	0.602	0.116

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

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: LEONARD-64N64W 21NESW		Date: 3/20/2023		Remediation Project #: 25226				
Associated Wells: Leonard 3		Age of Site: Unknown		Number of Photos Attached: See attached				
Location: (GPS coordinates of southeaster berm) 40.296352, -104.558163							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 (SW)	Estimated Depth to Groundwater: Unknown
------------------------------	--

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	0.3							
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	1.3-1.9 ppm							
Sample taken? Location/ Sample ID#	See attached figure							
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								
PID Readings	4.6 ppm								
Photo Number(s)	See attached								

Other Facility Equipment

Equipment type					
Equipment Condition					
Age					
Soil impacts					
PID Readings					
Sample taken?					
Photo Number(s)					

Other observations regarding other facility or third party equipment:

ECD was removed prior to decommissioning activities.

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: 4	Total number of samples collected: 4
Highest PID Reading: 4.6 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: LEONARD-64N64W 21NESW		Date: 3/20/2023				Remediation Project #: 25226			
Associated Wells: Leonard 3		Age of Site: Unknown				Number of Photos Attached: See attached			
Location: (GPS coordinates of vault or southeastern tank berm for multiple) 40.296352, -104.558163						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 (SW)** Estimated Depth to Groundwater: **Unknown**

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
Elevated PIDs measured at 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 condition								
Condition of tank contents	Elevated PID								
PID Readings	555.1 ppm								
Condition of Access Lines	Elevated PIDs								
PID Readings	2.7-148.4 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: **555.1 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? No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater: Was remedial groundwater removal conducted? Yes No

Date Groundwater was encountered: Commencement date of removal:

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

Free product observed? Yes 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 40.29627°N ACCURACY 5 m
SE (T) 104.55837°W DATUM WGS84



Taken With
 Context Camera

Leonard 03
Leonard T4N-
R64W-S21 L01
Placard
2023-03-20
11:22:33-06:00

Description:

Wellhead Placard

Photo Log



Description:

SEP01@4'

Photo Log



Description:

SEP02@3.5'

Photo Log



DIRECTION
NW (T)

40.29638°N
104.55816°W

ACCURACY 4 m
DATUM WGS84



Leonard 03
Leonard T4N-R64W-S21...

SEP

2023-03-20
11:18:56-06:00

Description:

Separator Overview Facing NW

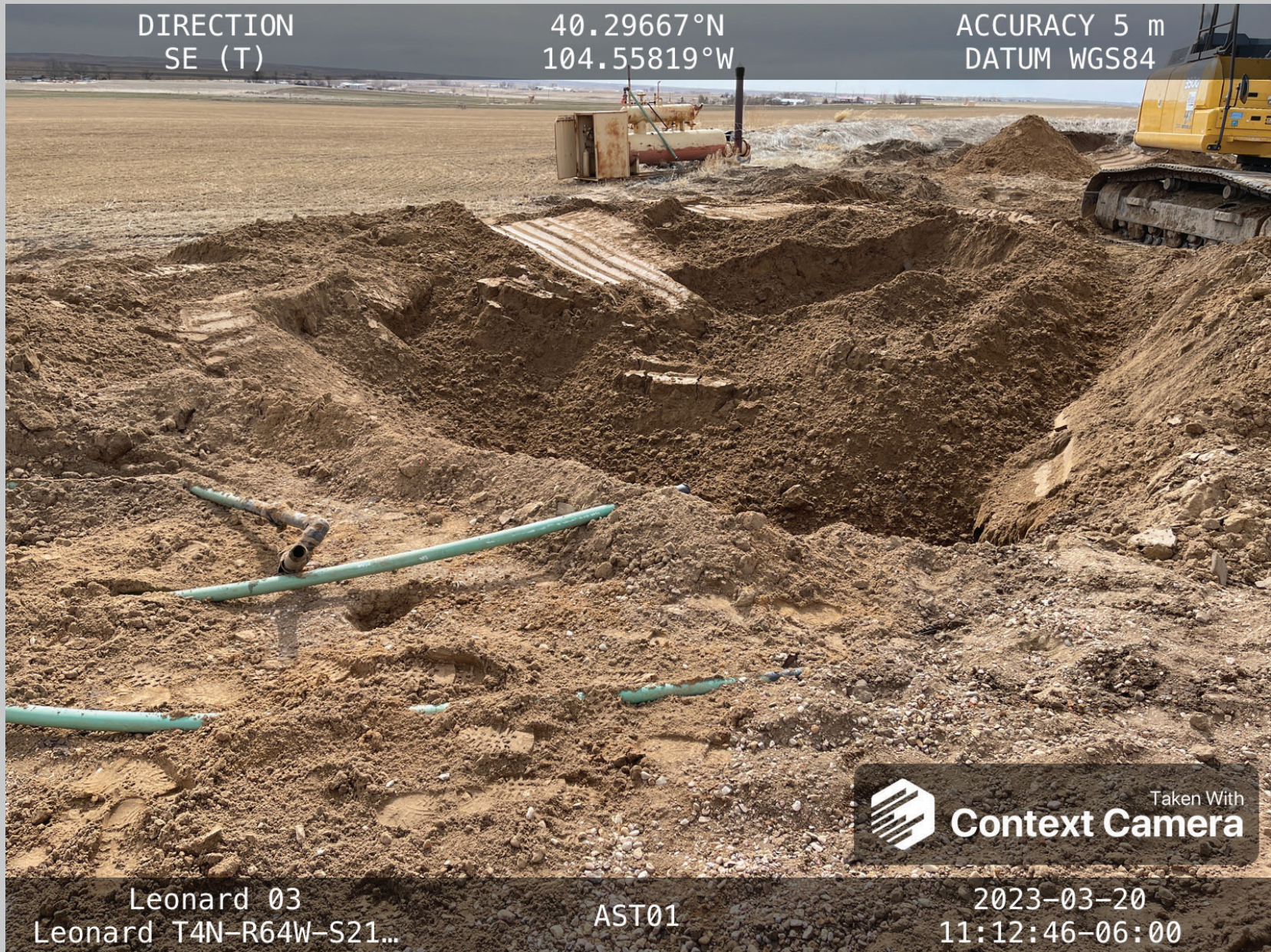
Photo Log



DIRECTION
SE (T)

40.29667°N
104.55819°W

ACCURACY 5 m
DATUM WGS84



Leonard 03
Leonard T4N-R64W-S21...

AST01

2023-03-20
11:12:46-06:00



Taken With
Context Camera

Description:

AST01@6" (Front), PWV Excavation (Back) Facing SE

Photo Log



DIRECTION
SW (T)

40.29661°N
104.55810°W

ACCURACY 4 m
DATUM WGS84



Leonard 03
Leonard T4N-R64W-S21...

PWV excavation

2023-03-20
11:06:32-06:00

Description:

PWV Excavation Facing SW

Photo Log



Description:

PWV Excavation Facing NW

Photo Log



Description:

MET01@6"

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 18, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Leonard T4N-RG4W-S21 L01

Work Order #2303542

Enclosed are the results of analyses for samples received by Summit Scientific on 03/21/23 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: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWVB01@7'	2303542-01	Soil	03/20/23 00:00	03/21/23 16:30
PWVW01@5.5'	2303542-02	Soil	03/20/23 00:00	03/21/23 16:30
AST01@6"	2303542-03	Soil	03/20/23 00:00	03/21/23 16:30
SEP01@4'	2303542-04	Soil	03/20/23 00:00	03/21/23 16:30
FL01@4'	2303542-05	Soil	03/20/23 00:00	03/21/23 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

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

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: Leonard TYN-R64W-S21 L81
 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, TMBS, Naph	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD
1	PWV01 @ 7'	3/20/23		1			X			X			X	X					
2	PWV01 @ 5.5'			1			X			X			X	X					
3	AST01 @ 6"			1			X			X			X	X					
4	SE01 @ 4'			1			X			X			X	X					
5	FL01 @ 4'	3/20/23		1			X			X			X	X					
6																			
7																			
8																			
9																			
10																			

Relinquished by: Chris Lattes	Date/Time: 3/21/23 13:00	Received by: S2	Date/Time: 3/21/23 13:00	Turn Around Time (Check):	Notes: Leonard Fac. + FL
Relinquished by: S2	Date/Time: 3/21/23 1030	Received by: [Signature]	Date/Time: 3/21/23 1030	Same Day _____ 72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours _____ Standard <u>X</u>	
				48 hours _____	
				Sample Integrity: Temperature Upon Receipt: 9.1	
				Samples Intact: <u>Yes</u> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2303542

Client: Fremont Client Project ID: Leonard T4N-Rel4W-S21101

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

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

Temp (°C) 9.1

Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>WILE</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

AS

Custodian Printed Name

3/21/23

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

PWVB01@7'
2303542-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0736	03/22/23	03/27/23	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	5.9	0.50		"	"	"	"	"	"	

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0402	100 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0435	109 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0448	112 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	390	50		mg/kg	1	BGC0739	03/22/23	03/28/23	EPA 8015M	
C28-C36 (ORO)	62	50		"	"	"	"	"	"	

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.8	94.5 %		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: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

PWVB01@7'
2303542-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC1001	03/30/23	03/31/23	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	0.0128	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: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0262	78.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0251	75.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.207	0.0100	mg/L	1	BGD0241	04/08/23	04/12/23	EPA 6020B	

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

Date Sampled: **03/20/23 00:00**

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

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

PWVB01@7'
2303542-01 (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	54.3	0.0551	mg/L dry	1	BGD0341	04/11/23	04/17/23	EPA 6020B	
Magnesium	8.02	0.0551	"	"	"	"	"	"	
Sodium	89.8	0.0551	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.01	0.00100	units	1	BGD0548	04/18/23	04/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.7		%	1	BGD0200	04/07/23	04/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.730	0.0100	mmhos/cm	1	BGD0371	04/12/23	04/13/23	EPA 120.1	

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

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BGD0372	04/12/23	04/13/23	EPA 9045D	I-04

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

PWVW01@5.5'
2303542-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGC0736	03/22/23	03/27/23	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: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0382	95.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	98.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGC0739	03/22/23	03/28/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.3	98.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

PWVW01@5.5'
2303542-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC1001	03/30/23	03/31/23	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: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0301	90.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0257	77.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.114	0.0100	mg/L	1	BGD0241	04/08/23	04/12/23	EPA 6020B	

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

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

PWVW01@5.5'
2303542-02 (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	55.5	0.0567	mg/L dry	1	BGD0341	04/11/23	04/17/23	EPA 6020B	
Magnesium	6.98	0.0567	"	"	"	"	"	"	
Sodium	64.7	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.18	0.00100	units	1	BGD0548	04/18/23	04/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BGD0200	04/07/23	04/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.489	0.0100	mmhos/cm	1	BGD0371	04/12/23	04/13/23	EPA 120.1	

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

I-04

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BGD0372	04/12/23	04/13/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

**AST01@6''
2303542-03 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0736	03/22/23	03/27/23	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: **03/20/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGC0739	03/22/23	03/28/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.7	101 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

**AST01@6''
2303542-03 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC1001	03/30/23	03/31/23	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: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0285	85.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0200	59.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0976	0.0100	mg/L	1	BGD0241	04/08/23	04/12/23	EPA 6020B	

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

Date Sampled: **03/20/23 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

**AST01@6''
2303542-03 (Soil)**

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.7	0.0520	mg/L dry	1	BGD0341	04/11/23	04/17/23	EPA 6020B	
Magnesium	5.24	0.0520	"	"	"	"	"	"	
Sodium	24.0	0.0520	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.43	0.00100	units	1	BGD0548	04/18/23	04/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BGD0200	04/07/23	04/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.318	0.0100	mmhos/cm	1	BGD0371	04/12/23	04/13/23	EPA 120.1	

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

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.09		pH Units	1	BGD0372	04/12/23	04/13/23	EPA 9045D	I-04

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

SEP01@4'
2303542-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGC0736	03/22/23	03/27/23	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: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0444	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGC0739	03/22/23	03/28/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.13	73.0 %	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: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

SEP01@4'
2303542-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC1001	03/30/23	03/31/23	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: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0303	90.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.116	0.0100	mg/L	1	BGD0241	04/08/23	04/12/23	EPA 6020B	

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

Date Sampled: **03/20/23 00:00**

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

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 10:42

SEP01@4'
2303542-04 (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	186	0.0536	mg/L dry	1	BGD0341	04/11/23	04/17/23	EPA 6020B	
Magnesium	45.1	0.0536	"	"	"	"	"	"	
Sodium	35.3	0.0536	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.602	0.00100	units	1	BGD0548	04/18/23	04/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.2		%	1	BGD0200	04/07/23	04/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.168	0.0100	mmhos/cm	1	BGD0371	04/12/23	04/13/23	EPA 120.1	

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

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.51		pH Units	1	BGD0372	04/12/23	04/13/23	EPA 9045D	I-04

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

FL01@4'
2303542-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGC0736	03/22/23	03/27/23	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: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0386	96.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGC0739	03/22/23	03/28/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.61	76.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

FL01@4'
2303542-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC1001	03/30/23	03/31/23	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: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0333	100 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0238	71.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.133	0.0100	mg/L	1	BGD0241	04/08/23	04/12/23	EPA 6020B	

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

Date Sampled: **03/20/23 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: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

FL01@4'
2303542-05 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	515	0.0536	mg/L dry	1	BGD0341	04/11/23	04/17/23	EPA 6020B	
Magnesium	118	0.0536	"	"	"	"	"	"	
Sodium	81.6	0.0536	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.844	0.00100	units	1	BGD0548	04/18/23	04/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BGD0200	04/07/23	04/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.453	0.0100	mmhos/cm	1	BGD0371	04/12/23	04/13/23	EPA 120.1	

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

Date Sampled: **03/20/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BGD0372	04/12/23	04/13/23	EPA 9045D	I-04

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

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 BGC0736 - EPA 5030 Soil MS

Blank (BGC0736-BLK1)

Prepared: 03/22/23 Analyzed: 03/26/23

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	0.0390		"	0.0400		97.4	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

LCS (BGC0736-BS1)

Prepared: 03/22/23 Analyzed: 03/26/23

Benzene	0.0814	0.0020	mg/kg	0.100		81.4	70-130			
Toluene	0.0862	0.0050	"	0.100		86.2	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.194	0.010	"	0.200		97.0	70-130			
o-Xylene	0.0958	0.0050	"	0.100		95.8	70-130			
1,2,4-Trimethylbenzene	0.0986	0.0050	"	0.100		98.6	70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100		100	70-130			
Naphthalene	0.0962	0.0038	"	0.100		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0366		"	0.0400		91.4	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

Matrix Spike (BGC0736-MS1)

Source: 2303541-02

Prepared: 03/22/23 Analyzed: 03/27/23

Benzene	0.0780	0.0020	mg/kg	0.100	ND	78.0	70-130			
Toluene	0.0828	0.0050	"	0.100	ND	82.8	70-130			
Ethylbenzene	0.0976	0.0050	"	0.100	ND	97.6	70-130			
m,p-Xylene	0.186	0.010	"	0.200	ND	93.2	70-130			
o-Xylene	0.0926	0.0050	"	0.100	ND	92.6	70-130			
1,2,4-Trimethylbenzene	0.0963	0.0050	"	0.100	ND	96.3	70-130			
1,3,5-Trimethylbenzene	0.0977	0.0050	"	0.100	ND	97.7	70-130			
Naphthalene	0.102	0.0038	"	0.100	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0354		"	0.0400		88.4	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.6	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 10:42

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 BGC0736 - EPA 5030 Soil MS

Matrix Spike Dup (BGC0736-MSD1)	Source: 2303541-02			Prepared: 03/22/23 Analyzed: 03/27/23						
Benzene	0.0772	0.0020	mg/kg	0.100	ND	77.2	70-130	1.08	30	
Toluene	0.0824	0.0050	"	0.100	ND	82.4	70-130	0.509	30	
Ethylbenzene	0.0974	0.0050	"	0.100	ND	97.4	70-130	0.185	30	
m,p-Xylene	0.187	0.010	"	0.200	ND	93.7	70-130	0.562	30	
o-Xylene	0.0958	0.0050	"	0.100	ND	95.8	70-130	3.50	30	
1,2,4-Trimethylbenzene	0.0979	0.0050	"	0.100	ND	97.9	70-130	1.67	30	
1,3,5-Trimethylbenzene	0.0982	0.0050	"	0.100	ND	98.2	70-130	0.459	30	
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130	2.23	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0367</i>		<i>"</i>	<i>0.0400</i>		<i>91.7</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.1</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 10:42

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 BGC0739 - EPA 3550A

Blank (BGC0739-BLK1)

Prepared: 03/22/23 Analyzed: 03/28/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.2	30-150				

LCS (BGC0739-BS1)

Prepared: 03/22/23 Analyzed: 03/28/23

C10-C28 (DRO)	485	50	mg/kg	500		97.0	70-130				
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		102	30-150				

Matrix Spike (BGC0739-MS1)

Source: 2303541-02

Prepared: 03/22/23 Analyzed: 03/28/23

C10-C28 (DRO)	420	50	mg/kg	500	13.8	81.2	70-130				
Surrogate: <i>o</i> -Terphenyl	11.1		"	12.5		88.4	30-150				

Matrix Spike Dup (BGC0739-MSD1)

Source: 2303541-02

Prepared: 03/22/23 Analyzed: 03/28/23

C10-C28 (DRO)	419	50	mg/kg	500	13.8	81.1	70-130	0.0715	20		
Surrogate: <i>o</i> -Terphenyl	10.6		"	12.5		85.0	30-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

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 BGC1001 - EPA 5030 Soil MS

Blank (BGC1001-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

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>0.0374</i>		"	<i>0.0333</i>		<i>112</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0315</i>		"	<i>0.0333</i>		<i>94.5</i>	<i>40-150</i>			

LCS (BGC1001-BS1)

Prepared: 03/30/23 Analyzed: 03/31/23

Acenaphthene	0.0363	0.00500	mg/kg	0.0333	109	31-137
Anthracene	0.0326	0.00500	"	0.0333	97.9	30-120
Benzo (a) anthracene	0.0318	0.00500	"	0.0333	95.5	30-120
Benzo (a) pyrene	0.0319	0.00500	"	0.0333	95.8	30-120
Benzo (b) fluoranthene	0.0395	0.00500	"	0.0333	118	30-120
Benzo (k) fluoranthene	0.0392	0.00500	"	0.0333	118	30-120
Chrysene	0.0254	0.00500	"	0.0333	76.2	30-120
Dibenz (a,h) anthracene	0.0177	0.00500	"	0.0333	53.1	30-120
Fluoranthene	0.0316	0.00500	"	0.0333	94.7	30-120
Fluorene	0.0343	0.00500	"	0.0333	103	30-120
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	47.1	30-120
Pyrene	0.0377	0.00500	"	0.0333	113	35-142
1-Methylnaphthalene	0.0343	0.00500	"	0.0333	103	35-142
2-Methylnaphthalene	0.0336	0.00500	"	0.0333	101	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0381</i>		"	<i>0.0333</i>	<i>114</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0369</i>		"	<i>0.0333</i>	<i>111</i>	<i>40-150</i>

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

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 BGC1001 - EPA 5030 Soil MS

Matrix Spike (BGC1001-MS1)	Source: 2303519-01			Prepared: 03/30/23 Analyzed: 03/31/23					
Acenaphthene	0.0292	0.00500	mg/kg	0.0333	ND	87.7	31-137		
Anthracene	0.0243	0.00500	"	0.0333	ND	72.9	30-120		
Benzo (a) anthracene	0.0243	0.00500	"	0.0333	ND	73.0	30-120		
Benzo (a) pyrene	0.0239	0.00500	"	0.0333	ND	71.6	30-120		
Benzo (b) fluoranthene	0.0302	0.00500	"	0.0333	ND	90.6	30-120		
Benzo (k) fluoranthene	0.0325	0.00500	"	0.0333	ND	97.4	30-120		
Chrysene	0.0196	0.00500	"	0.0333	ND	58.7	30-120		
Dibenz (a,h) anthracene	0.0203	0.00500	"	0.0333	ND	60.8	30-120		
Fluoranthene	0.0272	0.00500	"	0.0333	ND	81.6	30-120		
Fluorene	0.0267	0.00500	"	0.0333	ND	80.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0162	0.00500	"	0.0333	ND	48.6	30-120		
Pyrene	0.0285	0.00500	"	0.0333	ND	85.4	35-142		
1-Methylnaphthalene	0.0248	0.00500	"	0.0333	ND	74.4	15-130		
2-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.7	15-130		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0282</i>		"	<i>0.0333</i>		<i>84.5</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0290</i>		"	<i>0.0333</i>		<i>86.9</i>	<i>40-150</i>		

Matrix Spike Dup (BGC1001-MSD1)	Source: 2303519-01			Prepared: 03/30/23 Analyzed: 03/31/23					
Acenaphthene	0.0259	0.00500	mg/kg	0.0333	ND	77.8	31-137	12.0	30
Anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	18.7	30
Benzo (a) anthracene	0.0201	0.00500	"	0.0333	ND	60.2	30-120	19.2	30
Benzo (a) pyrene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	18.7	30
Benzo (b) fluoranthene	0.0249	0.00500	"	0.0333	ND	74.6	30-120	19.3	30
Benzo (k) fluoranthene	0.0272	0.00500	"	0.0333	ND	81.6	30-120	17.6	30
Chrysene	0.0161	0.00500	"	0.0333	ND	48.2	30-120	19.5	30
Dibenz (a,h) anthracene	0.0188	0.00500	"	0.0333	ND	56.4	30-120	7.38	30
Fluoranthene	0.0225	0.00500	"	0.0333	ND	67.4	30-120	19.1	30
Fluorene	0.0256	0.00500	"	0.0333	ND	76.9	30-120	4.01	30
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.2	30-120	2.96	30
Pyrene	0.0237	0.00500	"	0.0333	ND	71.0	35-142	18.5	30
1-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	63.0	15-130	16.5	50
2-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.8	15-130	14.9	50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0234</i>		"	<i>0.0333</i>		<i>70.2</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0237</i>		"	<i>0.0333</i>		<i>71.2</i>	<i>40-150</i>		

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: Leonard T4N-RG4W-S21 L01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 10:42

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 BGD0241 - EPA 3050B

Blank (BGD0241-BLK1)

Prepared: 04/08/23 Analyzed: 04/12/23

Boron ND 0.0100 mg/L

LCS (BGD0241-BS1)

Prepared: 04/08/23 Analyzed: 04/12/23

Boron 4.70 0.0100 mg/L 5.00 94.0 80-120

Duplicate (BGD0241-DUP1)

Source: 2303542-01

Prepared: 04/08/23 Analyzed: 04/12/23

Boron 0.198 0.0100 mg/L 0.207 4.75 20

Matrix Spike (BGD0241-MS1)

Source: 2303542-01

Prepared: 04/08/23 Analyzed: 04/12/23

Boron 4.72 0.0100 mg/L 5.00 0.207 90.3 75-125

Matrix Spike Dup (BGD0241-MSD1)

Source: 2303542-01

Prepared: 04/08/23 Analyzed: 04/12/23

Boron 4.78 0.0100 mg/L 5.00 0.207 91.5 75-125 1.34 25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 10:42

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

Summit Scientific

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

Batch BGD0341 - General Preparation

Blank (BGD0341-BLK1)

Prepared: 04/11/23 Analyzed: 04/17/23

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

LCS (BGD0341-BS1)

Prepared: 04/11/23 Analyzed: 04/17/23

Calcium	5.31	0.0500	mg/L wet	5.00		106	70-130			
Magnesium	4.95	0.0500	"	5.00		99.0	70-130			
Sodium	5.08	0.0500	"	5.00		102	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 10:42

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

Summit Scientific

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

Batch BGD0200 - General Preparation

Duplicate (BGD0200-DUP1)

Source: 2303542-01

Prepared & Analyzed: 04/07/23

% Solids	90.7		%		90.7			0.0163	20	
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 10:42

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 BGD0371 - General Preparation

Blank (BGD0371-BLK1)

Prepared: 04/12/23 Analyzed: 04/13/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGD0371-BS1)

Prepared: 04/12/23 Analyzed: 04/13/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BGD0371-DUP1)

Source: 2303542-01

Prepared: 04/12/23 Analyzed: 04/13/23

Specific Conductance (EC) 0.722 0.0100 mmhos/cm 0.730 1.17 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 10:42

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 BGD0372 - General Preparation

LCS (BGD0372-BS1)

Prepared: 04/12/23 Analyzed: 04/13/23

pH	9.05	pH Units	9.18	98.6	95-105
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Duplicate (BGD0372-DUP1)

Source: 2303542-01

Prepared: 04/12/23 Analyzed: 04/13/23

pH	7.90	pH Units	7.92	0.253	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Leonard T4N-RG4W-S21 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 10:42

Notes and Definitions

I-04 Sample was analyzed out of recommended holding time per clients request.

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