# Remediation Summary & Soil Closure Request

# Permian Resources Laguna 23 Fed Com 1H

Lea County, New Mexico
Unit Letter N, Section 23, Township 20 South, Range 34 East
Latitude 32.552474 North, Longitude 103.53345 West
NMOCD Reference No. NAPP2426430978

Prepared By:

**Etech Environmental & Safety Solutions, Inc.** 

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

Robbie Runnels

Matthew Grieco



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Permian Resources, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Laguna 23 Fed Com 1H (henceforth, "Site"). Details of the release are summarized below:

atitude <u>:</u>		32.552474	Longitude		-103.53345	
		Provide	ed GPS are in WGS84 for	mat.		
Site Name:		guna 23 Fed Com 1H	Site Type:		Tank Battery	
Date Release Disc	covered:	9/20/2024	API # (if appl	icable):	30-025-40742	
Unit Letter	Section	on Township	Range	County		
N	23	20S	34E	Lea		
Surface Owner: [	State		Private (N	Release		
Crude Oil	V	Volume Released (bbls)		Volume Recover	ed (bbls)	
X Produced W	ater V	Volume Released (bbls)	40	Volume Recover	ed (bbls) 0	
		s the concentration of disso he produced water > 10,000		X Yes	No N/A	
Condensate	V	Volume Released (bbls)		Volume Recover	ed (bbls)	
Natural Gas	V	Volume Released (Mcf)		Volume Recover	ed (Mcf)	
Other (descr	ribe) V	Volume/Weight Released		Volume/Weight Recovered		
Cause of Releas Water transfer p		ked.				
		Iı	nitial Response			
X The impacte	d area has	ase has been stopped.  s been secured to protect hun e been contained via the use			her containment devices	

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	Direct Measurement
Did the release impact groundwater or surface water?	Yes X No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between ½ and 1 (mi.)
Any other fresh water well or spring?	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Greater than 5 (mi.)
A wetland?	Between 1 and 5 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Between 1 and 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	Yes X No

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined by gauging a fresh-water well approximately 0.36 miles from the location. Depth to groundwater is provided as Appendix A.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4 and 5.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	20,000	600
Between 100 and 500 (ft.)	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

<sup>\*</sup> Measured in milligrams per kilogram (mg/kg)

<sup>\*\*</sup> Environmental Protection Agency

<sup>†</sup> Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

<sup>‡</sup> The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

## 4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	X Yes No		
Have the lateral and vertical extents of contamination been fully delineated?	X Yes No		
Was this release entirely contained within a lined containment area?	Yes X No		
On what estimated date will (or did) the remediation commence?	12/30/2024		
On what date will (or did) the final sampling or liner inspection occur?	1/2/2025		
On what date will (or was) the remediation complete(d)?	1/10/2025		
What is the total surface area (sq. ft.) in need of or that will eventually be reclaimed?	3,900		
What is the total volume (cy) in need of or that will eventually be reclaimed?	670		
What was the total surface area (sq. ft.) that has or will be remediated?	3,900		
What was the total volume (cy) that has or will be remediated?	190		
This remediation utilized the following processes to remediate/reduce contaminants:			
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	X Yes No		
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Yes X No		
(In Situ) Soil Vapor Extraction	Yes X No		
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Yes X No		
(In Situ) Biological processing (i.e. Microbes/Fertilizer, etc.)	Yes X No		
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Yes X No		
Ground Water Abatement pursuant to 19.15.30 NMAC	Yes X No		
Other (Non-listed remedial process)	Yes X No		
Which OCD approved facility was or will be used for off-site disposal?	Lea Land, Inc.		
NMOCD Disposal Facility ID?	fEEM0112342028		
Summarize any additional remediation activities not included by answers above.	See below		

On December 30, 2024, Etech commenced remediation activities at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	6,640	FL 18 @ 6"	1/2/2025	0.5	In-Situ
ТРН	1,650	FL 2 @ 1'	1/2/2025	1	Excavated
GRO+DRO	1,320	FL 2 @ 1'	1/2/2025	1	Excavated
BTEX	<0.300	All submitted samples	1/2/2025	0 - 2	In-Situ and Excavated
Benzene	<0.050	All submitted samples	1/2/2025	0 - 2	In-Situ and Excavated

Please reference Table 1 for additional information.

On January 2, 2024, Etech collected thirty-one (31) confirmation soil samples (FL 1 @ 1' through FL6 @ 1', FL 7 @ 6", FL 8 @ 1', FL 9 through FL 22 @ 6", EW 1, EW 2, NW 1, NW 2, SW 1, SW 2, WW 1, WW 2, and WW 3) from the floor and sidewalls of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analyses of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples, with the exception of soil sample FL 2 @ 1'. Based on the laboratory results, excavation was advanced in the area around FL 2.

On January 6, 2024, Etech collected an additional confirmation soil sample (FL 2 @ 2') from the floor of the excavated area. The soil sample was submitted to the laboratory for analyses of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria.

The final dimensions of the excavated area were approximately one-hundred thirty-five (135) to one-hundred seventy (170) feet in length, forty-two (42) to ninety-six (96) feet in width, and one-half foot (0.5) to two (2) feet in depth. During the course of remediation activities, Etech transported approximately one-hundred ninety (190) cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately two-hundred (200) cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site and Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the Site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E. Supplemental Site Characterization Maps are provided as Appendix F.

# 5.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	Yes X No
Requesting a remediation closure approval with this submission?	X Yes No
Have the lateral and vertical extents of contamination been fully delineated?	X Yes No
Was this release entirely contained within a lined containment area?	Yes X No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	X Yes No
What was the total surface area (sq. ft.) remediated?	3,900
What was the total volume (cy) remediated?	190

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Permian Resources provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted to the Site.

# 6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	X Yes No
Requesting a reclamation approval with this submission?	Yes X No
Requesting a restoration complete approval with this submission?	Yes X No
What was the total surface area (in square feet) reclaimed?	3,900
What was the total volume (in cubic yards) reclaimed?	190

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material. Excavation backfill was represented by soil sample Lea Land Backfill and placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

The release was limited to the production pad of an active tank battery and did not impact the adjacent pasture. Final reclamation will be conducted upon decommissioning and abandonment of the facility. The reclaimed area will be revegetated with a certified weed-free BLM #2 seed mix (or other agency and/or landowner-approved seed mix) during the first favorable growing season following closure of the facility. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

#### 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Permian Resources. Use of the information contained in this report is prohibited without the consent of Etech and/or Permian Resources.

# 8.0 DISTRIBUTION

#### Permian Resources

300 N. Marienfeld St. Suite 100 Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

## United States Department of the Interior

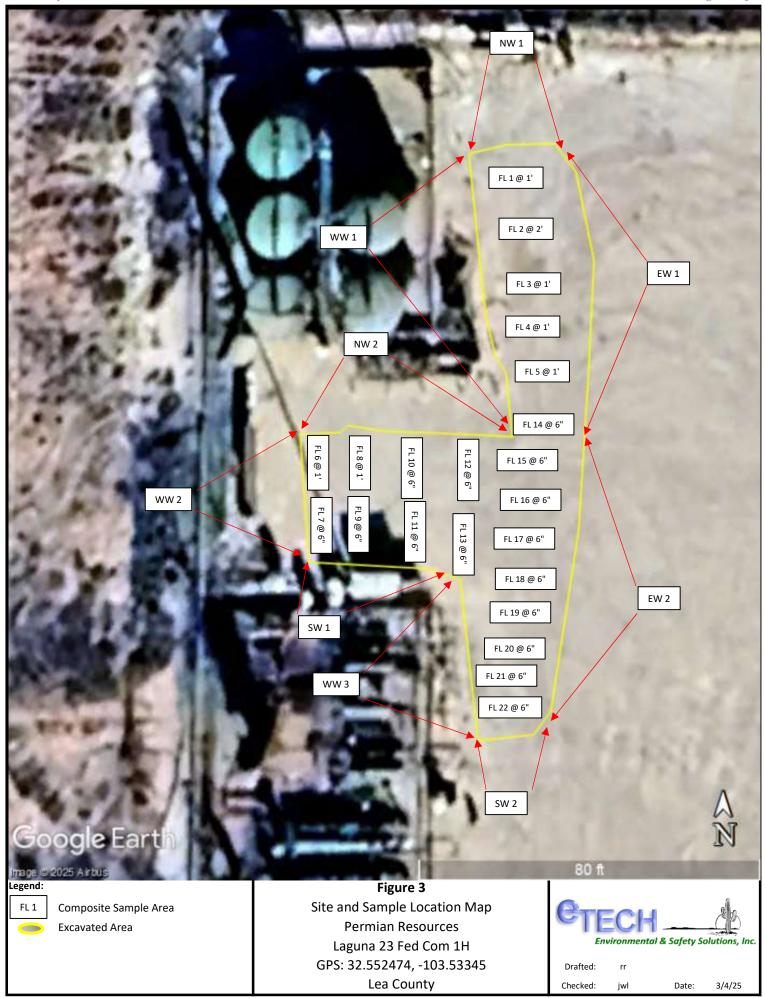
Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220

(Electronic Submission)

# Figure 1 Topographic Map

# Figure 2 Aerial Proximity Map

# Figure 3 Site and Sample Location Map

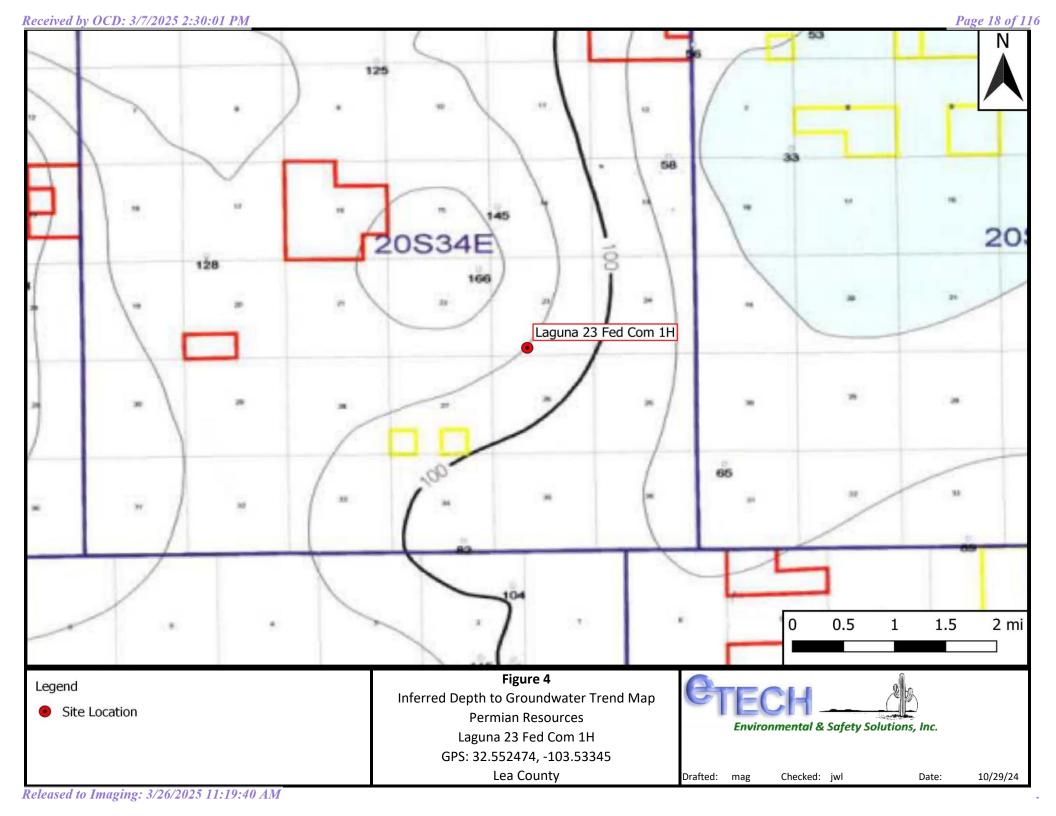


# Table 1 Concentrations of BTEX, TPH, and Chloride in Soil

	Table 1							
Conce	Concentrations of BTEX, TPH, and Chloride in Soi							
	Permian Resources							
	La	guna 23 F	ed Com 1	Н				
	NMOCD Ref. #: NAPP2426430978							
MOCD Closure Criteria	10	50	-	-	1,00			
CD Reclamation Standard	10	50	-	-	-			

NMO	CD Closure C	riteria		10	50	-	-	1,000	-	2,500	20,000
NMOCD	Reclamation	Standard		10	50	-	-	-	-	100	600
				SW 846 8021B		21B SW 8		V 846 8015M Ext.			4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL 1 @ 1'	1/2/2025	1	In-Situ	< 0.050	< 0.300	<10.0	125	125	19.9	145	928
FL 2 @ 1'	1/2/2025	1	Excavated	< 0.050	< 0.300	<10.0	1,320	1,320	333	1,650	448
FL 2 @ 2'	1/6/2025	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 3 @ 1'	1/2/2025	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 4 @ 1'	1/2/2025	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 5 @ 1'	1/2/2025	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 6 @ 1'	1/2/2025	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 7 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,160
FL 8 @ 1'	1/2/2025	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 9 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,720
FL 10 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 11 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	69.3	69.3	<10.0	69.3	2,960
FL 12 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	11.0	11.0	<10.0	11.0	1,410
FL 13 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,680
FL 14 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 15 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 16 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 17 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,170
FL 18 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	43.2	43.2	<10.0	43.2	6,640
FL 19 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,280
FL 20 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FL 21 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 22 @ 6"	1/2/2025	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 1	1/2/2025	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
EW 2	1/2/2025	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
NW 1	1/2/2025	0-2	In-Situ	< 0.050	< 0.300	<10.0	19.7	19.7	<10.0	19.7	192
NW 2	1/2/2025	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 1	1/2/2025	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW 2	1/2/2025	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 1	1/2/2025	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 2	1/2/2025	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 3	1/2/2025	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
Lea Land Backfill	5/22/2024	NA	Backfill	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

# Appendix A Depth to Groundwater Information



# **Point of Diversion Summary**

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest NAD83 UTM in meters Well Tag **POD Nbr Q64** Q16 Q4 Tws Χ Map Rng Sec CP 01204 POD1 SW NW NW 25 20S 34E 638755.1 3602250.6

\* UTM location was derived from PLSS - see Help

**Driller License:** 1682 **Driller Company:** HUNGRY HORSE, LLC. **Driller Name:** NORRIS, JOHN D. **Drill Start Date: Drill Finish Date:** Plug Date: 2013-10-08 2013-11-01 Shallow Log File Date: **PCW Rcv Date:** 2013-12-12 Source: Pump Type: Pipe Discharge Size: **Estimated Yield:** 370 **Depth Water:** Casing Size: 8.00 **Depth Well:** 

## **Water Bearing Stratifications:**

Тор	Bottom	Description
38	56	Sandstone/Gravel/Conglomerate
56	270	Shale/Mudstone/Siltstone
270	293	Shale/Mudstone/Siltstone
293	370	Shale/Mudstone/Siltstone

# **Casing Perforations:**

Тор	Bottom
0	370

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/29/24 11:18 AM MST Point of Diversion Summary

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# WELL RECORD & LOG

# OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

								2 IP 534	326	
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GENERAL AND WELL LOCATION	WELL LOCATIO (FROM GI	PS) LONG	ettude [03	32 56	9 W	* DATUM REG	REQUIRED: ONE TEN	TH OF A SECOND		
1. GE	DESCRIPTIO	N RELATING WE	LL LOCATION TO STREE	T ADDRESS AND COMMON LANDMARKS - PL	SS (SECTION, TOW	VNSHJIP, RANG	E) WHERE AVAILABLE		·	
	LICENSE NU WD1682		NAME OF LICENSED JOHN NORRIS	DRILLER			NAME OF WELL DR HUNGRY HORS			
	DRILLING S 10-8-13		DRILLING ENDED	DEPTH OF COMPLETED WELL (FT) 370	BORE HOLE	DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FT)		
Z	COMPLETE	D WELL IS: (	ARTESIAN	C DRY HOLE	ONFINED)		STATIC WATER LEV	EL IN COMPLETED WE	LL (FT)	
ATIO	DRILLING F	LUID: (	AIR	C MUD ADDITIVES – SP.	ECIFY:					
JRM.	DRILLING N	иетнор: (	ROTARY	C HAMMER C CABLE TOOL	OTHER-	- SPECIFY:				
2. DRILLING & CASING INFORMATION	DEPTH FROM	(feet bgl)	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CAS: CONNE TYI	CTION	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
& CA	0	370	8	PVC	GLUED		8	3/4	1/8	
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2. D)										
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د		(feet bgl)	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL M. GRAVEL PACK SIZE-RANG		_	AMOUNT (cubic feet)	METHO PLACEN		
ANNULAR MATERIAL	FROM 0	TO 20	Zaran (mones)	CEMENT & GROUT	E BT INTER	VAL	(cubic feet)	TOP		
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FOR	OSE INTER	NAL USE				WR-20	) WELL RECORD	& LOG (Version 06/0	8/2012\	
	E NUMBER		- 1204	POD NUMBER	<u> </u>		NUMBER 5	343210	5,2012)	
LOC	LOCATION EXPL 205.34E.25.1-1:3 PAGE 1 OF 2									

Revised March 1972

# APPLICATION TO APPROPRIATE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 75-11-1 NEW MEXICO STATUTES

NOTE: Cathodic Protection Only--See Item No. 5.

Received: October 12, 1  radings:  Sec. 23 Twp. 20-S Rge. 34-E N. M.  County.  feet, N. M. Coordinate System  rty upon which well is to be located, or location by dir  feet; outside diameter of casing 10  poration, New Mexico License No. 9567	Zone Grant. irection and inches.
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Supervisor, Date: 6 Octobs	1977
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	5	38	33	CALICHE	CYCN	
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S.	JACOB K	NELSON				
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₩.	CORRECT	RECORD O	OF THE ABOVE I	DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECO		
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6. SI			11			
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FOI	R OSE INTE	RNAL USE		WR-20 WELL RI	ECORD & LOG (Ve	rsion 06/08/2012)
	E NUMBER		1204	POD NUMBER TRN NUMBER	52422	110

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LOCATION

PAGE 2 OF 2

#### GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre feet in any calendar year.
- B. The well shall be drilled only by a driller licensed in the State of New Mexico in accordance with Section 75-11-13 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 75-11-13).
- C. Driller's log must be filed in the office of the State Engineer within 10 days after the well is drilled or driven. Failure to file the log within that time shall result in automatic cancellation of the permit. Log forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household, livestock in a commercial feed lot operation, or any other commercial purpose, the permittee shall comply with Specific Condition of Approval number 5(b).
- F. In the even, this well is combined with other wells permitted under Section 75-11-1 New Mexico Statutes Annota ad, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre feet per annum.

#### SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

- 1. Depth of the well shall not exceed the thickness of the (a) the valley fill or (b) Ogallala formation.
- The well shall be constructed to artesian well specifications and the State Engineer Office shall be notified before casing is landed or cemented.
- Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
- Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- 5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the State Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water and pumping records shall be submitted to the District Supervisor (a) for each calendar month, on or before the 30th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 30th day of January of the following year.
- The well shall be plugged upon completion of the permitted use and a plugging report shall be filed in the office of the State Engineer within 10 days.
- Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer Office.
- 8. Use shall be limited strictly to household and/or drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, garden, trees or use in any type of pool or pond is authorized under this permit.

#### INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be executed in triplicate and forwarded with a \$1.00 filing fee to the appropriate office of the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and file number, if possible) should be given under Remarks. (Item 5.)

Applications for appropriation, well logs and request for information in the following basins should be addressed to the State Engineer at the office indicated;

Bluewater, Estancia, Rio Grande, and Sandia Basins

District No. 1, 505 Marquette NW, Room 1023, Albuquerque, New Mexico 87101

Capitan, Carlsbad, Fort Sumner, Hondo, Jal, Lea, Penasco, Portales, Roswell, and Upper Pecos Basins

District No. 2, Box 1717, Roswell, New Mexico 88201

Animas, Gila-San Francisco, Hot Springs, Las Animas Creek, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon, and Virden Valley Basins

District No. 3, Box 844, Deming, New Mexico 88030

Canadian River Basin

State Engineer Office, State Capitol, Bataan Memorial Bldg., Santa Fe, New Mexico 87501



NATURAL RESOURCES GROUP Exploration and Production

October 6, 1977

Cathodic Protection—Drillings for Anode Implant

File: W1-Se-17-77-N

STATE ENGINE ROSWELLOS NO PRODUCTION NO PROD

State of New Mexico (3)
Office of the State Engineer
Upper Pecos Water Basins
P. O. Box 1717
Roswell, New Mexico 88201

Attention: Mr. Jim Wright,

District No. 2

#### Gentlemen:

We respectfully request approval of the attached "Application to Appropriate Ground Waters" which applies to a cathodic protection hole to be drilled in our Wilson Gathering System and not for water appropriation.

This well has not been drilled to date. You will be furnished its driller's well log as prepared by the state licensed drilling contractor at such time as the hole is completed.

Check No. 186936 in the amount of one dollar is enclosed to cover the filing fee.

Very truly yours,

PHILLIPS PETROLEUM COMPANY

E. E. Clark, Operations Manager

amw

Enclosure

Check No. 186936=\$1.00

JBN



'80 SEP 8 PH 12 34

NATURAL RESOURCES GROUP Exploration and Production

December 6, 1977

STATE ENGINEER SANTA FE., N.M.

Transmittal of Drilling Logs For Deep Ground Bed Rectifier Unit NG-38 New Mexico File No. CP-567 65-599-1

File: W1-Se-20-77

State of New Mexico (3)
Office of the State Engineer
Upper Pecos Water Basins
P.O. Box 1717
Roswell, New Mexico 88201

Attention: Mr. Jim Wright District No. 2

Gentlemen:

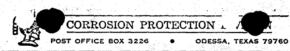
Attached are drilling logs for a 220' deep well ground bed recently installed under Application to Appropriate Underground Waters, File No. CP-567, 65-599-1, in the Wilson Gathering System, Section 23, T-20-S, R-34-E, NMPM Survey, Lea County, New Mexico.

Very truly yours,

R. G. Seibold

RGS:amw Attachment

Santa Fe



#### CATHODIC PROTECTION INSTALLATION DEEP WELL GROUNDBED DATA

ELL			PIPEL	INE	M-3 W	ilson G	atherin	ng System
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65	Red Bed		1.3			<del> </del>		
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## CATHODIC PROTECTION INSTALLATION DEEP WELL GROUNDBED DATA

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# **Ground Water Sampling Log**

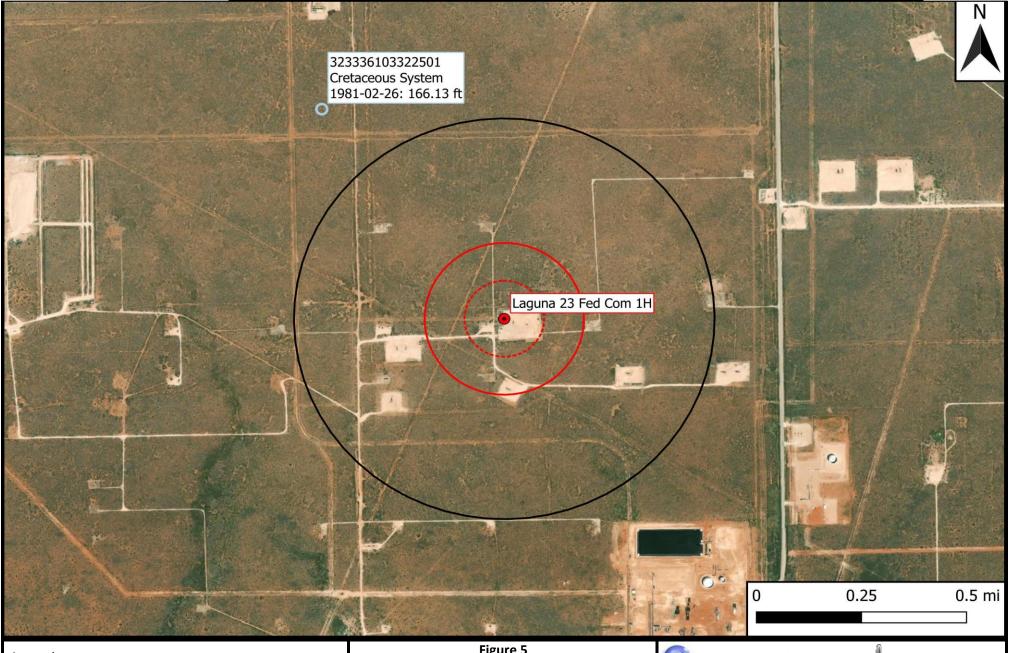
Well ID: Cathodic
Date: 2/10/25

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Well P	urge Data					_			
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Gal/ft	0.163	0.367	0.653	1.02	1.469	Purging	Volume (3 x	Well Vol) =	gal
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Sample									
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	a Tampu + 0.2°C						IT S	o, length (ft)?	

• Temp: ± 0.2°C (USGS for thermistor)

Received by OCD: 3/7/2025 2:30:01 PM







Site Location

Well - USGS

500 Ft Radius ☐ 1000 Ft Radius

☐ 0.5 Mi Radius

# Figure 5

**USGS Well Proximity Map Permian Resources** Laguna 23 Fed Com 1H GPS: 32.552474, -103.53345 Lea County

**Environmental & Safety Solutions, Inc.** 

Drafted: mag

Checked: jwl

Date:

10/29/24



USGS Home Contact USGS Search USGS

# **National Water Information System: Web Interface**

USGS Water Resources  Groundwater  Groundwater  Geographic Area:  United States  ✓	GO

Click for News Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

## Search Results -- 1 sites found

Agency code = usgs site\_no list =

323336103322501

## Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 323336103322501 20S.34E.22.222333

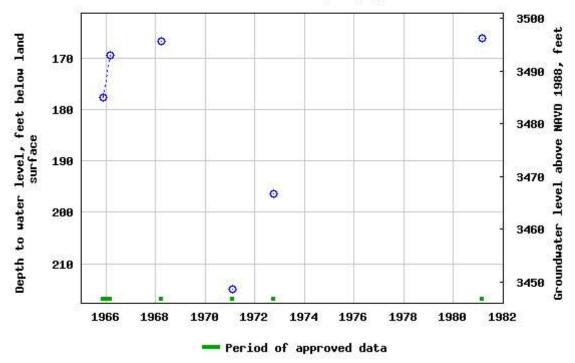
Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°33'36", Longitude 103°32'25" NAD27
Land-surface elevation 3,663 feet above NAVD88
The depth of the well is 250 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

## **Output formats**

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

#### USGS 323336103322501 205,34E,22,222333



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions or Comments
Help
Data Tips
Explanation of terms
Subscribe for system changes

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

**Title: Groundwater for USA: Water Levels** 

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-10-29 13:16:58 EDT

0.62 0.46 nadww01



# Appendix B Field Data



# Sample Log

Date:

12-30-24

Project:

Laguna 23 Fed Com 1H

Project Number:

21191

Latitude:

32.552474

Longitude:

-103.53345

Sample ID	PID/Odor	Chloride Conc.	GPS
FLIEI 4	6 -	378	
A /	0 -	396	
FLZei 3.		588	
EL 301 Z		220	A
	4 -	140	COT .
f1581 2	.4 -	284	
16e1 1	6	164	
	0	1964	
NW2 3.	6	396	
FC801 1.	4 —	146	
FL9ebin HS 4	. 6 -	3.308	
5W1 2	. 0	220	
WWZ Z	0	210	
		396	
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Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

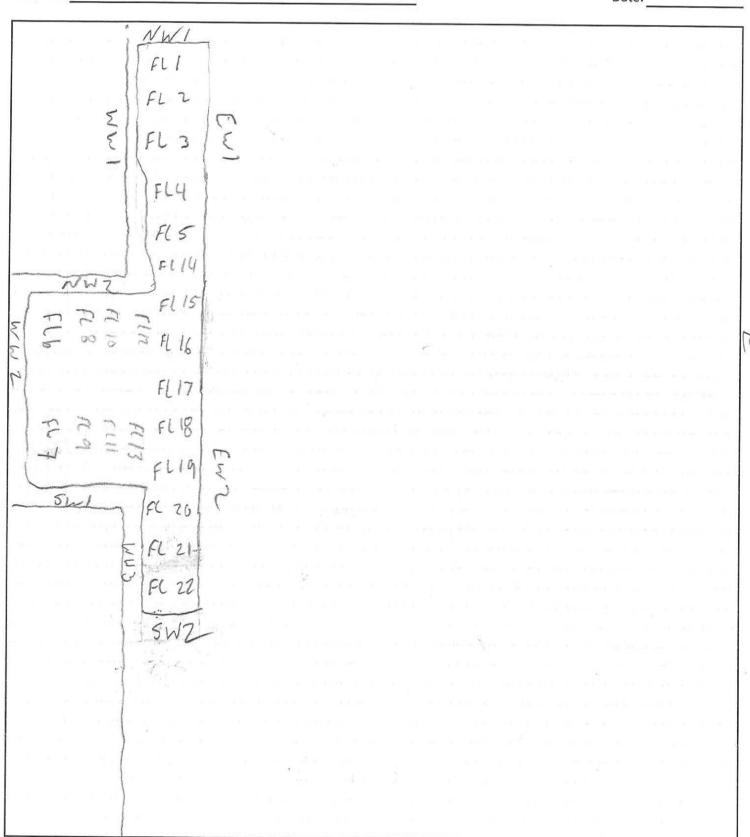
**GPS Sample Points, Center of Comp Areas** 

Received by OCD: 3/7/2025 2:30:01 PM



# Field Map

5	
Project:	Date:
	200



# Appendix C Photographic Log

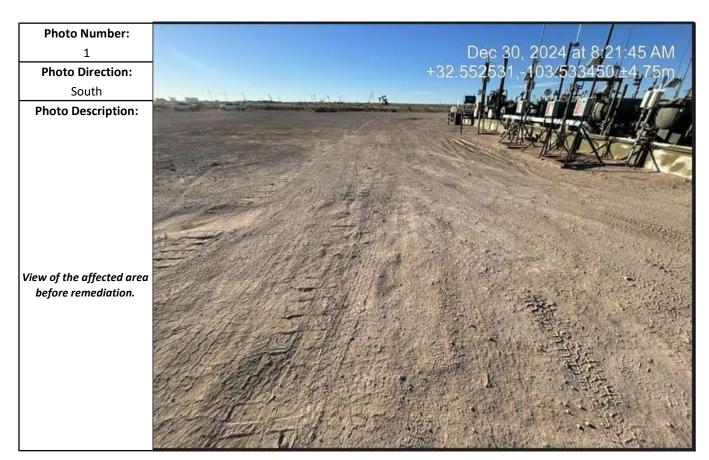




Photo Number:

3

**Photo Direction:** 

North

**Photo Description:** 



View of portion of the excavated area.

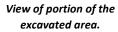
**Photo Number:** 

4

**Photo Direction:** 

West

**Photo Description:** 



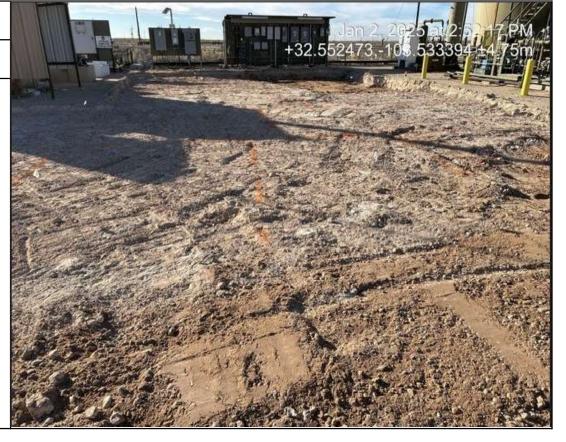


Photo Number: 5 Photo Direction:

South
Photo Description:

.....

View of portion of the excavated area.



Photo Number:

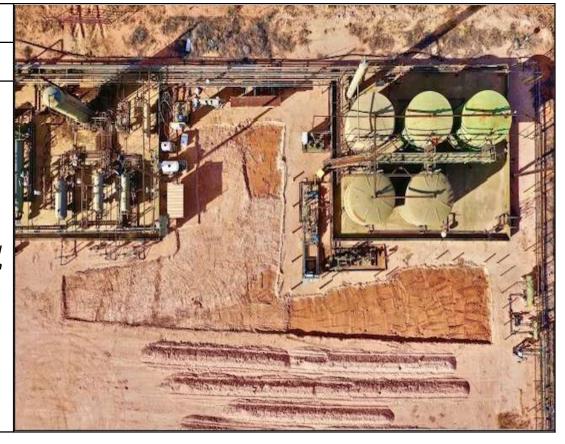
6

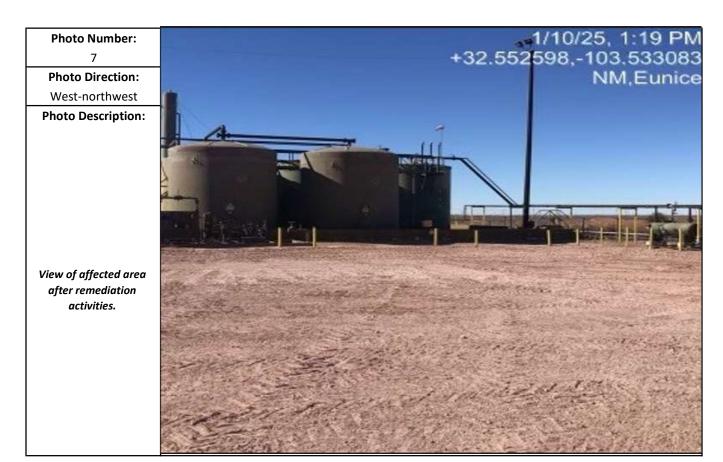
**Photo Direction:** 

Top Down

**Photo Description:** 

Aerial view of affected area after remediation activities.







# Appendix D Laboratory Analytical Reports



January 07, 2025

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: LAGUNA 23 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/03/25 8:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 1 @ 1' (H250012-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.12	106	2.00	0.0322	
Toluene*	<0.050	0.050	01/03/2025	ND	2.15	108	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.14	107	2.00	0.358	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	6.38	106	6.00	0.569	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	212	106	200	1.40	
DRO >C10-C28*	125	10.0	01/03/2025	ND	193	96.4	200	1.35	
EXT DRO >C28-C36	19.9	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	117 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

## Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

ma/ka

#### Sample ID: FL 2 @ 1' (H250012-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.12	106	2.00	0.0322	
Toluene*	<0.050	0.050	01/03/2025	ND	2.15	108	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.14	107	2.00	0.358	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	6.38	106	6.00	0.569	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	212	106	200	1.40	
DRO >C10-C28*	1320	10.0	01/03/2025	ND	193	96.4	200	1.35	
EXT DRO >C28-C36	333	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

ma/ka

#### Sample ID: FL 3 @ 1' (H250012-03)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.12	106	2.00	0.0322	
Toluene*	<0.050	0.050	01/03/2025	ND	2.15	108	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.14	107	2.00	0.358	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	6.38	106	6.00	0.569	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	212	106	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	193	96.4	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	116 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil Project Name: LAGUNA 23 FED COM 1H Sampling Condition:

Cool & Intact Project Number: 21191 Sample Received By: Shalyn Rodriguez

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 4 @ 1' (H250012-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.12	106	2.00	0.0322	
Toluene*	<0.050	0.050	01/03/2025	ND	2.15	108	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.14	107	2.00	0.358	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	6.38	106	6.00	0.569	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	212	106	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	193	96.4	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.552474, -103.53345

mg/kg

#### Sample ID: FL 5 @ 1' (H250012-05)

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.12	106	2.00	0.0322	
Toluene*	<0.050	0.050	01/03/2025	ND	2.15	108	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.14	107	2.00	0.358	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	6.38	106	6.00	0.569	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

ma/ka

#### Sample ID: FL 6 @ 1' (H250012-06)

RTFY 8021R

B1EX 8021B	mg,	ky	Allalyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.12	106	2.00	0.0322	
Toluene*	<0.050	0.050	01/03/2025	ND	2.15	108	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.14	107	2.00	0.358	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	6.38	106	6.00	0.569	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

ma/ka

#### Sample ID: FL 7 @ 6" (H250012-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.12	106	2.00	0.0322	
Toluene*	<0.050	0.050	01/03/2025	ND	2.15	108	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.14	107	2.00	0.358	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	6.38	106	6.00	0.569	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	84.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

ma/ka

#### Sample ID: FL 8 @ 1' (H250012-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.12	106	2.00	0.0322	
Toluene*	<0.050	0.050	01/03/2025	ND	2.15	108	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.14	107	2.00	0.358	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	6.38	106	6.00	0.569	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.4	% 49.1-14	8						

## Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.552474, -103.53345

mg/kg

#### Sample ID: FL 9 @ 6" (H250012-09)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 10 @ 6" (H250012-10)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 11 @ 6" (H250012-11)

BTEX 8021B

DILX OUZID	ıııg,	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	69.3	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	76.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 12 @ 6" (H250012-12)

RTFY 8021R

BIEX 8021B	mg,	кg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	11.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	R						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 13 @ 6" (H250012-13)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Applyzod By: 14

Received: 01/03/2025 Reported: 01/07/2025

01/07/2025 Sa LAGUNA 23 FED COM 1H Sa

Project Name: LAGUN Project Number: 21191

Project Location: PERMIAN 32.552474, -103.53345

Sampling Date: 01/02/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: FL 14 @ 6" (H250012-14)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/03/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.5	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 15 @ 6" (H250012-15)

RTFY 8021R

B1EX 8021B	mg/	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	93.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact Sample Received By: Project Number: 21191 Shalyn Rodriguez

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 16 @ 6" (H250012-16)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	76.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 17 @ 6" (H250012-17)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/03/2025 Reported:

Sampling Date: 01/02/2025

Project Name:

01/07/2025 Sampling Type: Soil LAGUNA 23 FED COM 1H

Project Number: 21191 Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 18 @ 6" (H250012-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	43.2	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.8	% 49.1-14	8						

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Shalyn Rodriguez

#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact

Sample Received By: Project Number: 21191

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 19 @ 6" (H250012-19)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	86.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 20 @ 6" (H250012-20)

RTFY 8021R

Result <0.050 <0.050	Reporting Limit 0.050	Analyzed 01/03/2025	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050	01/03/2025					Tu D	Qualifier
<0.050			ND	2.22	111	2.00	3.41	
	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
<0.300	0.300	01/03/2025	ND					
113 9	% 71.5-13	4						
mg,	/kg	Analyzed By: HM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
640	16.0	01/03/2025	ND	432	108	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
<10.0	10.0	01/03/2025	ND					
83.6	% 48.2-13	4						
84.8	% 49.1-14	8						
	<0.150 <0.300  113 9  Result 640  mg/  Result <10.0 <10.0 <83.6	<0.150 0.150 <0.300 0.300  113	<0.150	<0.150       0.150       01/03/2025       ND         113 % 71.5-134         The sult is a mg/k       The sult is a malyzed by: HM         Result Reporting Limit is a malyzed is a malyzed by: MS         Result Reporting Limit is a malyzed is a malyzed by: MS         Result Reporting Limit is a malyzed is a	<0.150	<0.150       0.150       01/03/2025       ND       7.33       122         <0.300       0.300       01/03/2025       ND       7.33       122         1/13 %       71.5-134         mg/ky       Analyzed By: HM         Result       Reporting Limit       Analyzed By: MS       ** Recovery**         Result       Reporting Limit       Analyzed By: MS       ** Recovery**         <10.0	<0.150       0.150       01/03/2025       ND       7.33       122       6.00         1/13 ⋅ √       71.5-134         Megwith       Analyzed By: HM         Result Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC         Analyzed By: MS         Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC         < 10.0       10.0       01/03/2025       ND       182       91.0       200         < 10.0       10.0       01/03/2025       ND       178       88.9       200         < 10.0       10.0       01/03/2025       ND       178       88.9       200         83.6 ⋅ 48.2-134	<0.150

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Applyzod By: 14

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil
Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Coo

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 21 @ 6" (H250012-21)

RTFY 8021R

Result <0.050 <0.050 <0.050 <0.150	Reporting Limit 0.050 0.050 0.050	Analyzed 01/03/2025 01/03/2025	Method Blank ND ND	BS 2.22	% Recovery	True Value QC	RPD 3.41	Qualifier
<0.050 <0.050	0.050			2.22	111	2.00	3 41	
<0.050		01/03/2025	ND				J. <del>7</del> 1	
	0.050			2.30	115	2.00	2.16	
< 0.150		01/03/2025	ND	2.37	118	2.00	2.07	
	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
<0.300	0.300	01/03/2025	ND					
113	% 71.5-13	4						
mg,	/kg	Analyzed By: HM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
400	16.0	01/03/2025	ND	432	108	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
<10.0	10.0	01/03/2025	ND					
89.5	% 48.2-13	4						
88.1	% 49.1-14	8						
	<0.300  113 : mg, Result  400 mg, Result <10.0 <10.0 <89.5	<0.300 0.300 113 % 71.5-13 mg/ky Result Reporting Limit 400 16.0 mg/ky Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <89.5 % 48.2-13	<0.300       0.300       01/03/2025         113 % 71.5-134         mg/ky       Analyzed         400 16.0 01/03/2025         mg/ky       Analyzed         Result Result Reporting Limit Analyzed       < 40.0 01/03/2025         <10.0 10.0 01/03/2025	<0.300       0.300       01/03/2025       ND         113 % 71.5-134         mg/kg       Analyzed By: HM         Result Reporting Limit Analyzed By: MS         Result Reporting Limit Analyzed Method Blank         <10.0	<0.300       01/03/2025       ND         113 % 71.5-134         mg/kg       Analyzed By: HM         Result       Reporting Limit       Analyzed By: MS         Result       Reporting Limit       Analyzed By: MS         <10.0	< 0.300       01/03/2025       ND         113 % 71.5-134         Try	< 0.300       01/03/2025       ND         113 % 71.5-134         mg/ky       Analyzed By: HM         Result Reporting Limit Analyzed Method Blank BS % Recovery       True Value QC         Analyzed By: MS         Result Reporting Limit Analyzed Method Blank BS % Recovery       True Value QC         <10.0 10.0 01/03/2025 ND 182 91.0 200	< 0.300       01/03/2025       ND         1/3 / 71.5-134         Trus / 71.5-134         Trug/kg       Analyzed By: HM         Result Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC   RPD         Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC   RPD         < 10.0   10.0   01/03/2025   ND   182   91.0   200   0.166

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

#### Sample ID: FL 22 @ 6" (H250012-22)

RTFY 8021R

B1EX 8021B	mg,	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.552474, -103.53345

mg/kg

#### Sample ID: NW 1 (H250012-23)

BTEX 8021B

DILX OUZID	mg/	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	19.7	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025 Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact

Project Number: 21191 Sample Received By: Shalyn Rodriguez
Project Location: PERMIAN 32.552474, -103.53345

Analyzed By: JH

mg/kg

#### Sample ID: NW 2 (H250012-24)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	182	91.0	200	0.166	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	178	88.9	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Sampling Date:

01/02/2025

Reported:

01/03/2025 01/07/2025

mg/kg

Sampling Type:

Soil

Project Name:

Received:

BTEX 8021B

LAGUNA 23 FED COM 1H

Sampling Condition:

Cool & Intact

Project Number:

21191

Sample Received By:

Shalyn Rodriguez

Project Location:

PERMIAN 32.552474, -103.53345

#### Sample ID: EW 1 (H250012-25)

DILX GOZID	ilig/ kg		Analyzea by. 311						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	192	95.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	177	88.5	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

ma/ka

#### Sample ID: EW 2 (H250012-26)

RTFY 8021R

BIEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	192	95.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	177	88.5	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Celeg D. Keens



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: PERMIAN 32.552474, -103.53345

ma/ka

#### Sample ID: SW 1 (H250012-27)

RTFY 8021R

BIEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	192	95.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	177	88.5	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Celeg D. Frene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.552474, -103.53345

mg/kg

#### Sample ID: SW 2 (H250012-28)

BTEX 8021B

	979		7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	2.22	111	2.00	3.41	
Toluene*	<0.050	0.050	01/03/2025	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	2.37	118	2.00	2.07	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	7.33	122	6.00	1.77	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	192	95.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	177	88.5	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2025 Sampling Date: 01/02/2025

Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 21191 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: PERMIAN 32.552474, -103.53345

mg/kg

#### Sample ID: WW 1 (H250012-29)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	1.65	82.4	2.00	1.45	
Toluene*	<0.050	0.050	01/03/2025	ND	1.72	86.0	2.00	2.14	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	1.67	83.3	2.00	1.83	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	4.91	81.8	6.00	0.940	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	179	89.3	200	0.309	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	184	92.1	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	126	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

PERMIAN 32.552474, -103.53345

Received: 01/03/2025 Sampling Date: 01/02/2025 Reported: 01/07/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H Sampling Condition: Cool & Intact

Project Number: Sample Received By: 21191 Shalyn Rodriguez

Sample ID: WW 2 (H250012-30)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	1.65	82.4	2.00	1.45	
Toluene*	< 0.050	0.050	01/03/2025	ND	1.72	86.0	2.00	2.14	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	1.67	83.3	2.00	1.83	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	4.91	81.8	6.00	0.940	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	179	89.3	200	0.309	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	184	92.1	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	119 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	6 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH

Received: 01/03/2025 Reported: 01/07/2025 Sampling Date: 01/02/2025 Sampling Type: Soil

Project Name: LAGUNA 23 FED COM 1H

Sampling Condition: Cool & Intact

Project Number: 21191

Sample Received By: Shalyn Rodriguez

Project Location: PERMIAN 32.552474, -103.53345

mg/kg

### Sample ID: WW 3 (H250012-31)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2025	ND	1.65	82.4	2.00	1.45	
Toluene*	<0.050	0.050	01/03/2025	ND	1.72	86.0	2.00	2.14	
Ethylbenzene*	<0.050	0.050	01/03/2025	ND	1.67	83.3	2.00	1.83	
Total Xylenes*	<0.150	0.150	01/03/2025	ND	4.91	81.8	6.00	0.940	
Total BTEX	<0.300	0.300	01/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/03/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2025	ND	179	89.3	200	0.309	
DRO >C10-C28*	<10.0	10.0	01/03/2025	ND	184	92.1	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	01/03/2025	ND					
Surrogate: 1-Chlorooctane	132	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	145	% 49.1-14	8						

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# **Notes and Definitions**

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

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6	FL 6 @ 1'	С	1		)	K				Х	1/2/25		X	X	X	-			-	+	-	$\vdash$		+
7	FL 7 @ 6"	С	1			X	-			Х	1/2/25		X	X	X				+	+	_	_	1	+
8	FL 8 @ 1'	С				X	+		_	X	1/2/25		X	X	X			-	+	+				+
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elivered By: (	Circle One) Observed Temp.	°C q	8				ondit	ion			KED BY:	Turnarou	nd Tim	e:	Stand			Cool	Intact	ly) Sam	ple Con bserved	d Temp	·°C	
	- Bus - Other: Corrected Temp		0		Cool		Ye	s	5	V	itials)	Thermome	ter ID Factor	#140			-	ПY	es   Y	es	orrected			

Relinquished By:	Dates -25	Received By:	2.	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	quer	REMARKS: 48 He RUSh addled R 1-3-25 -per customer 1-3-25
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C	7 Cool Intact	CHECKED BY:	Turnaround Time: Standard Rush

Page 2 of 4

ige 35 of 37

Company Name:	Etech Environmental & Safety Solution		nc.				18		BIL	LTO					AN	ALYSIS	REC	UEST		 
Project Manager:	N-DOVING AND						P.C	). #:												4
							Со	mpan	y:	Permian R	esources						1			
100.000	West Marland State: NM	Zip		8240	10		Att	n:	М	ontgomery F	loyd									
City: Hobbs		Lib						dress												
	, 201 0001	. [	ermi	an Re	SOUTO	es	Cit	v:					=	<u>8</u>						
Project #: 2119			Citin	dirito	Jours			ate:		Zip:		l e	151	(8021B)						
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Laguna 23 Fed Com 1H							one #	tt	•		or.	80,	(8)						
Project Location							_	x #:				Chloride	TPH (8015M)	X						
Sampler Name:	Dominic Casarez	Т	П		MATR	XIX	1. 0	PRES	SERV.	SAMP	LING	1	T P	ВТЕХ						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:		DATE	TIME									
11	FL 11 @ 6"	С	1		Х		1		X	1/2/25		X	X	X		_	+			
12	FL 12 @ 6"	С	1	_	Х		-		X	1/2/25		X	X	X		_	+			
13	FL 13 @ 6"	С	1		X	4	4		X	1/2/25		X	X	X			+-	+-		
14	FL 14 @ 6"	С	1		X	+	+	$\perp$	X	1/2/25		X	X	X	-		1	+		
15	FL 15 @ 6"	C	1		Х	+	+	$\vdash$	X	1/2/25		X	X	x						
19	FL 16 @ 6"	С	1		X	-	-	$\blacksquare$	X	1/2/25		X	x x	X		_				
IT	FL 17 @ 6"	С	1		Х	+	+		X	1/2/25		X	X	x						11.
18	FL 18 @ 6"	С			X	+	+		X	1/2/25		X	X	X						
19	FL 19 @ 6"	С			X	-	-		X	1/2/25		X	X	-						
90	FL 20 @ 6"	С	1		X	cont	set or to	chall be	X limited to	1/2/25 the amount paid	by the client for								-	

17	FL 1/ (0) 6"		_		100			930	2.2			- 1			
18	FL 18 @ 6"		С	1 X	X	1/2/25	Х	Х	Х		-	-	_		7
19	FL 19 @ 6"		С	1 X	X	1/2/25	Х	X	Х			-			1 6
90	FL 20 @ 6"		С	1 X	X	1/2/25	X	Х	Х						
PLEASE NOTE: Liabi analyses. All claims in	ility and Darnages. Cardinai's liability and clien coluding those for negligence and any other ca hall Cardinal be liable for incidental or conseques arising out of or related to the performance of	use whatsoever shall be deer	hout lies	testing business interruptions loss of	use, or loss of pro	ofits incurred by clie	ent, its subsidiaries,		E No	Addil	hone #:				——————————————————————————————————————
Relinquished	iBv:	Date: 1-3-25 Time: 842	Rec	eived By: Spadkig			All Results are er	□ Ye nailed.			address	om t			3/26/2
Relinquished		Date:	Rec	eived By:			REMARKS: 12	_ 16	lush pe	v a	uste	ony	Skadi	1-3-25 eign	iy diliging
THE PROPERTY OF THE PARTY OF TH		served Temp. °C	0 .4	FE No No No	S	CKED BY:	Turnaround Time Thermometer ID # Correction Factor	#140 -0.6°C	Standard Rush		Cool II ☐ Yes ☐ No	ntact Yes	Observed  Corrected	Temp. °C	O O Dased to In
FC	ORM-006 R 3.5 08/05/24	† Car	dina	cannot accept verba	I changes.	. Please em	ail changes to c	eley.ke	ene@card	inallabsn	m.com				Rele

ge 36 of 37 Page 3 of 4

Company Name:	Etech Environmental & Safety		Inc.				12		BI	LL TO					ANAL	LYSIS	REQ	UEST		 	۳
Project Manager			311814				P.0	0. #:												L	ᅱ
							Co	mpa	nv:	Permian R	esources	1									١
Assis over the	7 West Marland	NM Zip		8824	0			tn:		Nontgomery F		1									١
City: Hobbs		IAINI ZI	,	0021	_			idres				1									١
	i) 264-9884 Fax #:		Dor	nian R	ocour	200		ty:				1		<u>@</u>							1
Project #: 2119		Owner:	Pell	man r	esoui	ces		ate:		Zip:		9	TPH (8015M)	(8021B)		1 1					1
	Laguna 23 Fed Com 1H						_			Lip.		흥	0	8		1 1					1
Project Location	: 32.552474, -103.53345						_	none	#:			Chloride	89	×		1 1					١
Sampler Name:	Dominic Casarez		_	_	MAT	DIV	Fa	X#:	SERV.	SAMP	LING	ਹ	古	ВТЕХ							1
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	NTAINE	GROUNDWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:			TIME										
81	FL 21 @ 6"	(	1		X				X	1/2/25		X	Х	X		+ +		-			1
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25	EW 1	(	1		X				X	1/2/25		X	X	X	_	-		-	-		$\dashv$
20	EW 2	(	1		X				X	1/2/25		X	X	X	_	-	_		-		1
27	SW 1	(	2 1		X				Х	1/2/25		X	X	X					-		$\dashv$
28	SW 2	(	2 1		X				Х	1/2/25		X	X	X	_	+	_		-		$\dashv$
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20	WW 2				X				X	1/2/25	by the client for t	X the	X	X							_

2	200 1			2					5000	6332	100					1 1			
28	SW 2		С	1	X	X	1/2/25		Х	X	X	_	_	-	+			+	4
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Relinquished	shall Cardinal be liable for incidental or or sarising out of or related to the performa d By:	Date:	Re	eived	By: odkion	il		Verbal Result All Results ar	lt: re en	☐ Ye nailed.	Please p	rovide Er pm@	etecher	ress:			-1	1.0	3/26/20
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AND THE PROPERTY OF THE PARTY O	r: (Circle One)	Observed Temp. °C	9.8	le Li	Sample Condition Cool Intact Yes Yes No No		KED BY:	Turnaround Thermometer II Correction Fac	D #	140	Standa Rush		Coo	teria (on	ily) Sam Co es	oserved	lition Temp. °C Temp. °C		ased to In
F	ORM-006 R 3.5 08/05/24	† Ca	rdin	al cann	ot accept verbal o	hanges.	Please em	ail changes t	o ce	ley.ke	ene@ca	rdinallal	osnm.co	om					Rele



101 East Marland, Hobbs, NM 88240 (E7E) 203-2326 FAY (575) 393-2476

Page 4 of 4

37 of 37

Company Name:	Etech Environmenta			nc.				$\neg$	8		B	ILL	LTO					-	ANAL	YSIS	REQ	UEST		 	Pa
Project Manager		77.							P.0	. #:															$\neg$
Address: 261	7 West Marland								Con	npar	ıy:	F	Permian Re	esources											
City: Hobbs		State: NM	Zip:	:	8824	10			Attr	1:		Mon	ntgomery F	loyd											
V9 897 93015	5) 264-9884	Fax #:							Add	ires	s:														
Project #: 211	91	Project Owner:	F	Perm	ian F	Resou	ırce	s	City	<i>/</i> :						Ê	(B)								
	Laguna 23 Fed Com 1H	I							Stat	te:		Zi	ip:		Chloride	TPH (8015M)	(8021B)								
Project Location	32.552474, -103.53	345						_		one #	<b>#</b> :				흗	8	8)								
Sampler Name:	Dominic Casarez			_	_	***	TRIX	_	Fax	_	SERV	/1	SAMP	LING	ठ	표	втех								
Lab I.D.	Sample I	.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER.	DATE	TIME			ш								
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a to the B Conding I he Eable for incidental or cone	workering senemen letneuroes	ithout limitation, business interruptions, 1055 or us	130' nt inde of biggins incomes of one	My sales and a	
vice. In no event shall Cardinal be liable for inchemal or constitutes or successors arising out of or related to the performance	e of services hereunder by Card	final, regardless of whether such claim is based in	upon any of the above stated reaso	or distribution	
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annualisated by.	Duter			110 HM KUSUC CERCUST	111
				40 III	MINTISTE
	Time:			o pecapit	1001 1300
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	I di lidi odila i lilio	
elivered by: (Circle Offe)	belied temp.	7.6 Cool Intact	(Initials)		Observed Temp. °C
		Coor intact		Thermometer ID #140 Yes Yes	
ampler - UPS - Bus - Other:	Corrected Temp. °C	O // EYes Yes	NV -		Corrected Temp. °C
	-1	U.4- No No		Correction Factor -0.0 C	corrected reliip.
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FORM-006 R 3.5 08/05/24	† Car	dinal cannot accept verbal	changes. Please em	il changes to celey.keene@cardinallabsnm.com	
01111 00011 0.0 0010012					



January 22, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LAGUNA 23 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/08/25 10:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LAGUNA 23 FED COM 1H

Project Number: 21191

Project Manager: JOEL LOWRY

Fax To:

Reported: 22-Jan-25 17:09

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL 2 @ 2'	H250070-01	Soil	06-Jan-25 16:00	08-Jan-25 10:09

01/22/25 - Client changed the sample date (see COC). This is the revised report and will replace the one sent on 01/09/25.

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LAGUNA 23 FED COM 1H

Project Number: 21191

Project Manager: JOEL LOWRY

Fax To:

Reported: 22-Jan-25 17:09

# FL 2 @ 2' H250070-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	5010814	HM	08-Jan-25	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5010812	JН	08-Jan-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5010812	JH	08-Jan-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5010812	JH	08-Jan-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5010812	JH	08-Jan-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5010812	JH	08-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			95.8 %	71.5	-134	5010812	JH	08-Jan-25	8021B	
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5010741	MS	08-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5010741	MS	08-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5010741	MS	08-Jan-25	8015B	
Surrogate: 1-Chlorooctane			71.1 %	48.2	-134	5010741	MS	08-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			76.5 %	49.1	-148	5010741	MS	08-Jan-25	8015B	

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Celey D. Keine



# Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: LAGUNA 23 FED COM 1H

Project Number: 21191

Project Manager: JOEL LOWRY

Fax To:

Reported: 22-Jan-25 17:09

# **Inorganic Compounds - Quality Control**

# **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5010814 - 1:4 DI Water										
Blank (5010814-BLK1)				Prepared &	Analyzed:	08-Jan-25				
Chloride	ND	16.0	mg/kg							
LCS (5010814-BS1)				Prepared &	Analyzed:	08-Jan-25				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (5010814-BSD1)				Prepared &	z Analyzed:	08-Jan-25				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene



%REC

Limits

85.9-128

89-129

86.1-125

88.2-128

71.5-134

87.1

84.5

84.9

84.6

91.2

2.07

1.94

1.90

1.93

16

16.2

16.7

16.3

BS-3

BS-3

BS-3

RPD

# Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Ethylbenzene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

m,p-Xylene

o-Xylene

Project: LAGUNA 23 FED COM 1H

Spike

Level

2.00

4.00

2.00

6.00

0.0500

Source

Result

%REC

Project Number: 21191

Project Manager: JOEL LOWRY

Fax To:

Reported: 22-Jan-25 17:09

RPD

Limit

Notes

# Volatile Organic Compounds by EPA Method 8021 - Quality Control

# **Cardinal Laboratories**

Units

Reporting

Limit

Result

1.74

3.38

1.70

5.08

0.0456

0.050

0.100

0.050

0.150

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

Batch 5010812 - Volatiles									
Blank (5010812-BLK1)				Prepared & Anal	yzed: 08-Jan-25				
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500	93.7	71.5-134			
LCS (5010812-BS1)				Prepared & Anal	yzed: 08-Jan-25				
Benzene	1.66	0.050	mg/kg	2.00	83.2	82.8-130			
Toluene	1.78	0.050	mg/kg	2.00	88.9	86-128			
Ethylbenzene	1.71	0.050	mg/kg	2.00	85.3	85.9-128			BS-3
m,p-Xylene	3.31	0.100	mg/kg	4.00	82.9	89-129			BS-3
o-Xylene	1.67	0.050	mg/kg	2.00	83.3	86.1-125			BS-3
Total Xylenes	4.98	0.150	mg/kg	6.00	83.0	88.2-128			BS-3
Surrogate: 4-Bromofluorobenzene (PID)	0.0457		mg/kg	0.0500	91.3	71.5-134			
LCS Dup (5010812-BSD1)				Prepared & Anal	yzed: 08-Jan-25				
Benzene	1.72	0.050	mg/kg	2.00	85.9	82.8-130	3.27	15.8	
Toluene	1.82	0.050	mg/kg	2.00	91.0	86-128	2.42	15.9	

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Celey D. Keine



%REC

Limits

RPD

# **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Project: LAGUNA 23 FED COM 1H

Spike

Level

50.0

50.0

Source

Result

%REC

105

116

48.2-134

49.1-148

Project Number: 21191

Project Manager: JOEL LOWRY

Fax To:

Reported: 22-Jan-25 17:09

RPD

Limit

Notes

# Petroleum Hydrocarbons by GC FID - Quality Control

# **Cardinal Laboratories**

Units

Reporting

Limit

Result

52.3

57.9

Blank (5010741-BLK1)				Prepared & Ana	lyzed: 08-Jan-25				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0	95.4	48.2-134			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0	110	49.1-148			
LCS (5010741-BS1)				Prepared & Ana	lyzed: 08-Jan-25				
GRO C6-C10	196	10.0	mg/kg	200	97.8	81.5-123			
DRO >C10-C28	176	10.0	mg/kg	200	88.2	77.7-122			
Total TPH C6-C28	372	10.0	mg/kg	400	93.0	80.9-121			
Surrogate: 1-Chlorooctane	52.3		mg/kg	50.0	105	48.2-134			
Surrogate: 1-Chlorooctadecane	58.1		mg/kg	50.0	116	49.1-148			
LCS Dup (5010741-BSD1)				Prepared & Ana	lyzed: 08-Jan-25				
GRO C6-C10	194	10.0	mg/kg	200	96.9	81.5-123	0.968	13	
DRO >C10-C28	172	10.0	mg/kg	200	85.9	77.7-122	2.61	15.6	
Total TPH C6-C28	366	10.0	mg/kg	400	91.4	80.9-121	1.74	18.5	

mg/kg

mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether succession are only of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **Notes and Definitions**

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley & Keene

Received by OCD: 3/7/2025 2:30:01 PM

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANA	ALYSIS	REQUEST
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Company Nar	me: Etech Environmen	ital & Safety So	lution	ns, I	nc.		_		4	-		DI	11 -	and the same	I town			4							
Project Mana	ger: Toel / wry								P	.0. #		_	LL TO	ALC: UNITED BY				4	ANA	ALYS	SIS R	REQU	EST		
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City: Lovin	gton	State: NM	Zi	p: 88	3260	)						1.0		Alexander	1	1	1			1					
Phone #: (5	575) 396-2378	Fax #: (575)				_					U	14	Etheril	- AMELIE		1	1				1			1 1	
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Project Locati	: Laguna 23 Fed ( ion: 32, 552474, - ii: Migvel Ramina	om /H							Sta	ate:		2	Zip:	OF THE	0	(W	18)					1		1 1	
Sampler Name	m. 12. 952474, 7	103.53345							Ph	one	#:		14-14-11	THE S	Chloride	TPH (8015M)	EX (8021B		1 400						
FOR LAB USE ONLY	1900 Kamines	-		_					Fa	x #:				No. of Contract of	ž	8)	×	1	1.2.			1			
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Page 8 of 8



May 29, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: LEA LAND BACKFILL

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 8:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/29/2024 Sampling Type: Soil
Project Name: LEA LAND BACKFILL Sampling Condition: Cool & Intact

Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: 32.528184, -103.785455

# Sample ID: LEA LAND BACKFILL (H242864-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7	
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/24/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane 111 % 49.1-148			8						

# Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

# Page 90 of 116

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	: Etech Environmer	ital & Safety Solut	ions	Inc	6			П			E	3/1	L TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw								P.O	). #:								
Address: 261	7 West Marland								Cor	mpa	any		Etech	1				
City: Hobbs		State: NM	Zip:	882	240				Attı	n:		L	ance Crens	haw				
Phone #: (575	5) 264-9884	Fax #:							Add	dres	ss:							
Project #:		Project Owner	:	Ete	ch				City	y:							_	
Project Name:	Lea Land Backfill								Sta	te:	NN	1	Zip:		용	TPH (8015M)	BTEX (8021B)	
Project Location	n: 32.528184, -103.7	85455							Pho	one	#:				Chloride	801	(8)	
Sampler Name:	David Robinson								Fax	x #:					당	H	Ä	
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER		TRIX				SER COOL	OTHER:	SAMPLI	NG TIME		-	.a	
1	Lea Land Backfill		С	1		X			Ĭ		Х	Ť	5/22/24		Х	Х	Х	
			1				T		П			T						
analyses. All claims includi service. In no event shall C	Inh	er cause whatsoever shall be sequental damages, includin	deeme g without ardina	d walve ut limit: I, regar	ed unles tion, but	s made siness in whethe	in writi iterrup	ing and tions, le	recei oss of	ived by use, o	Cardir or loss	nal w	ithin 30 days afte offts incurred by o	r completion of t lient, its subsidia asons or otherwi Phone Re Fax Resu REMARK	ne applica ries, se. sult: lt: S:	□ Ye	es 🗆	No Add'l Phone #: No Add'l Fax #:  copy of CoC to pm@etechenv.com.
The Control of the Co	: (Circle One) - Bus - Other:	-4.8°	EIL	10	S	ample cool Ye	e Co	nditi act Yes No	ion	0			ED BY:	riedse 6	iiidii l	esuit	s and	copy of coc to pringeteorienv.com.

FORM-006 Revision 1.0

# Appendix E Regulatory Correspondence

# **Robbie Runnels**

From: Matthew Taylor < Matthew.Taylor@permianres.com>

Sent: Monday, December 30, 2024 1:04 PM

**To:** Robbie Runnels; Joel Lowry

**Subject:** FW: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application,

Application ID: 415865

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Monday, December 30, 2024 12:59 PM

To: Matthew Taylor < Matthew. Taylor@permianres.com>

Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 415865

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2426430978.

The sampling event is expected to take place:

When: 01/02/2025 @ 07:00

Where: N-23-20S-34E 0 FNL 0 FEL (32.552217,-103.532634)

Additional Information: Dominic Casarez 432-813-1036 Dominic@etechenv.com

Additional Instructions: Directions - From the intersection of NM-176 and Co Rd 27-A (32.522620, -103.522338), head N on Co Rd 27-A for 1.03 mi, then W for 0.99 mi, then N for 0.97 mi, then E for 0.35 mi, then N for 0.04 mi to arrive at the Laguna 23 Fed Com 1H release area (32.552474, -103.533450).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

 Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

### **Robbie Runnels**

From: Matthew Taylor < Matthew.Taylor@permianres.com>

Sent: Monday, December 30, 2024 1:04 PM

**To:** Robbie Runnels; Joel Lowry

**Subject:** FW: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application,

Application ID: 415868

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Monday, December 30, 2024 1:00 PM

**To:** Matthew Taylor < Matthew. Taylor@permianres.com>

Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 415868

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2426430978.

The sampling event is expected to take place:

When: 01/03/2025 @ 07:00

Where: N-23-20S-34E 0 FNL 0 FEL (32.552217,-103.532634)

Additional Information: Dominic Casarez 432-813-1036 Dominic@etechenv.com

Additional Instructions: Directions - From the intersection of NM-176 and Co Rd 27-A (32.522620, -103.522338), head N on Co Rd 27-A for 1.03 mi, then W for 0.99 mi, then N for 0.97 mi, then E for 0.35 mi, then N for 0.04 mi to arrive at the Laguna 23 Fed Com 1H release area (32.552474, -103.533450).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

 Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

# **Robbie Runnels**

From: Matthew Taylor < Matthew.Taylor@permianres.com>

Sent: Monday, December 30, 2024 1:05 PM

**To:** Robbie Runnels; Joel Lowry

**Subject:** FW: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application,

Application ID: 415870

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Monday, December 30, 2024 1:02 PM

To: Matthew Taylor < Matthew. Taylor@permianres.com>

Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 415870

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2426430978.

The sampling event is expected to take place:

When: 01/06/2025 @ 07:00

Where: N-23-20S-34E 0 FNL 0 FEL (32.552217,-103.532634)

Additional Information: Dominic Casarez 432-813-1036 Dominic@etechenv.com

Additional Instructions: Directions - From the intersection of NM-176 and Co Rd 27-A (32.522620, -103.522338), head N on Co Rd 27-A for 1.03 mi, then W for 0.99 mi, then N for 0.97 mi, then E for 0.35 mi, then N for 0.04 mi to arrive at the Laguna 23 Fed Com 1H release area (32.552474, -103.533450).

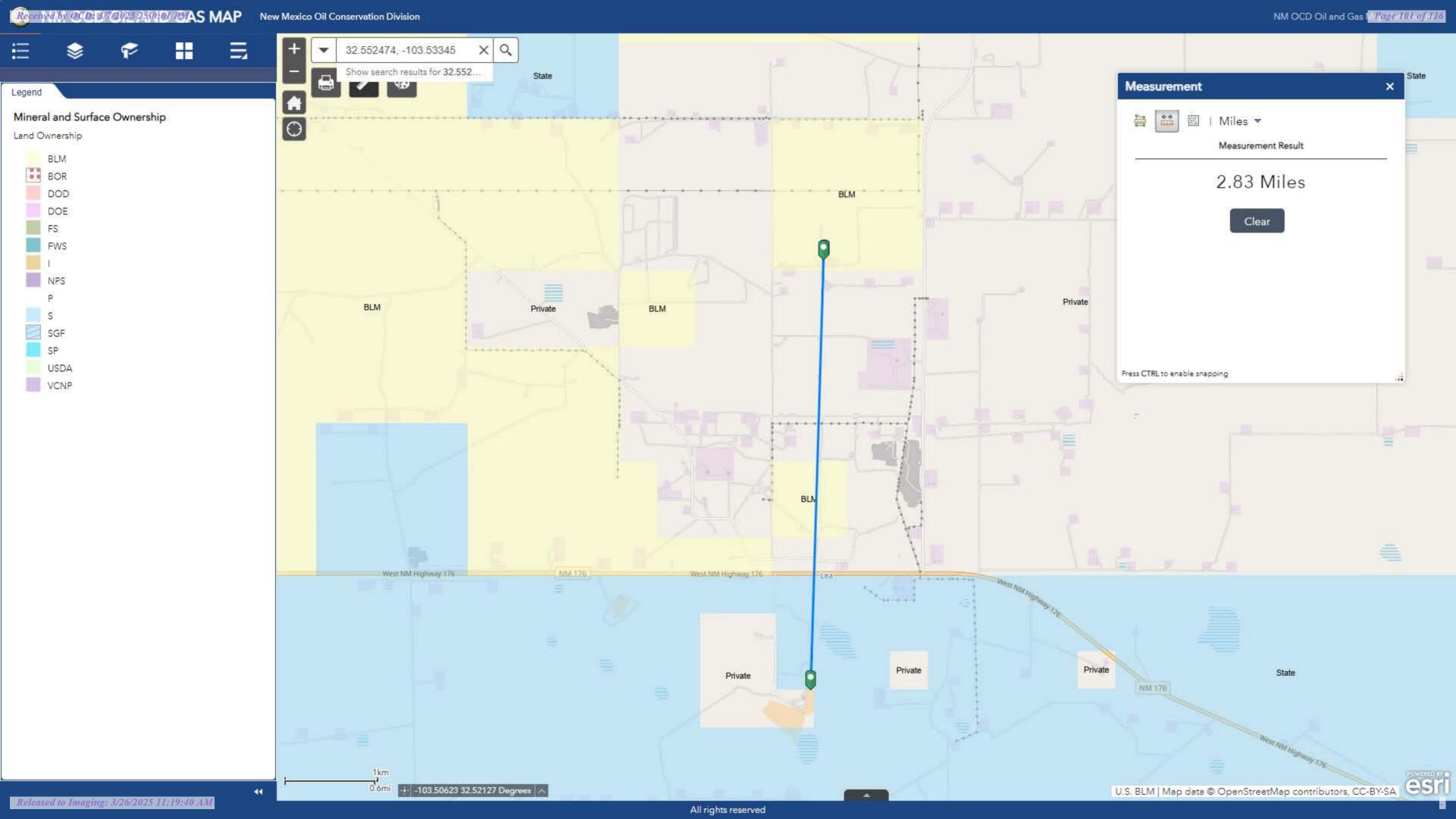
An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

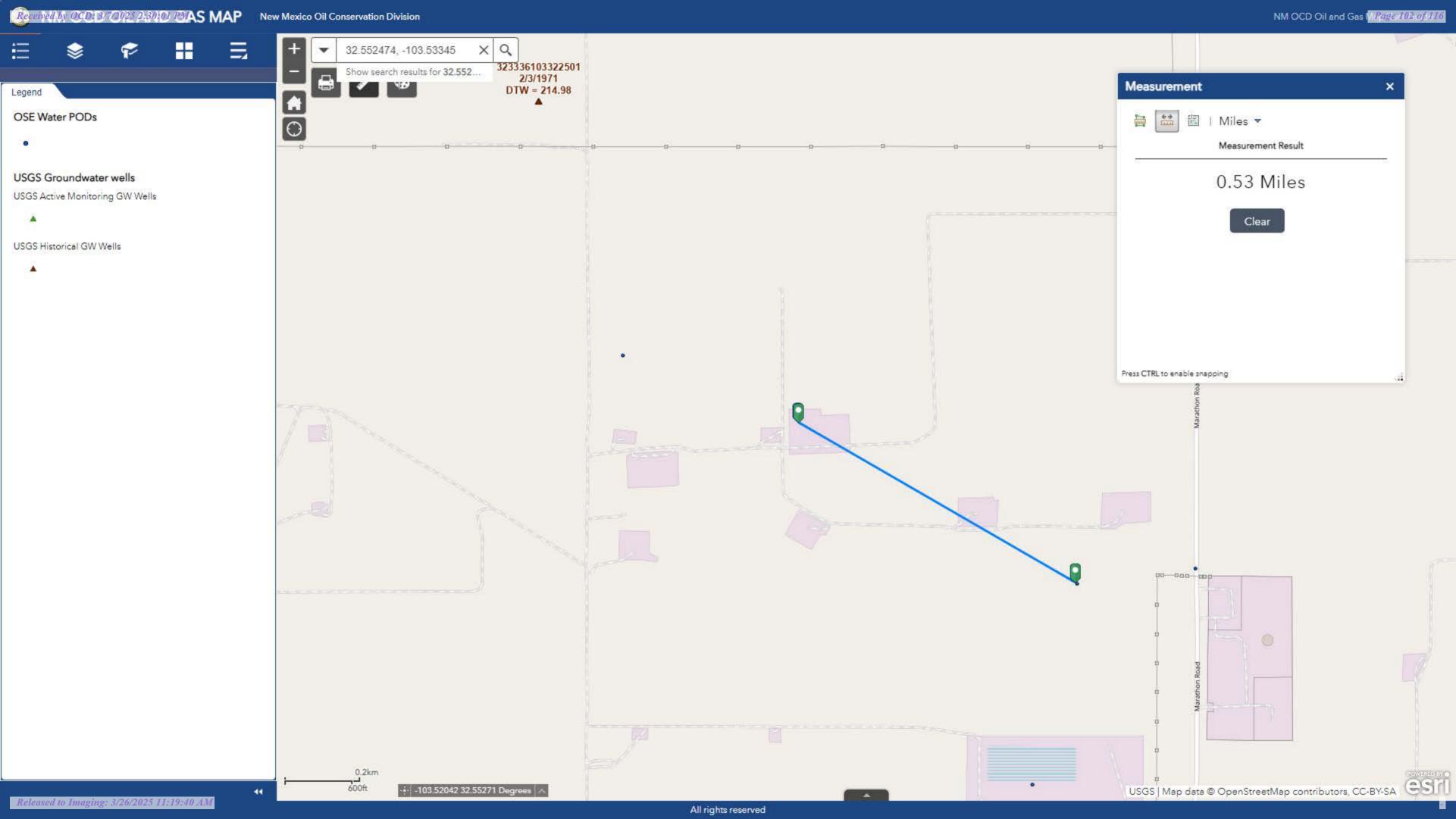
 Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

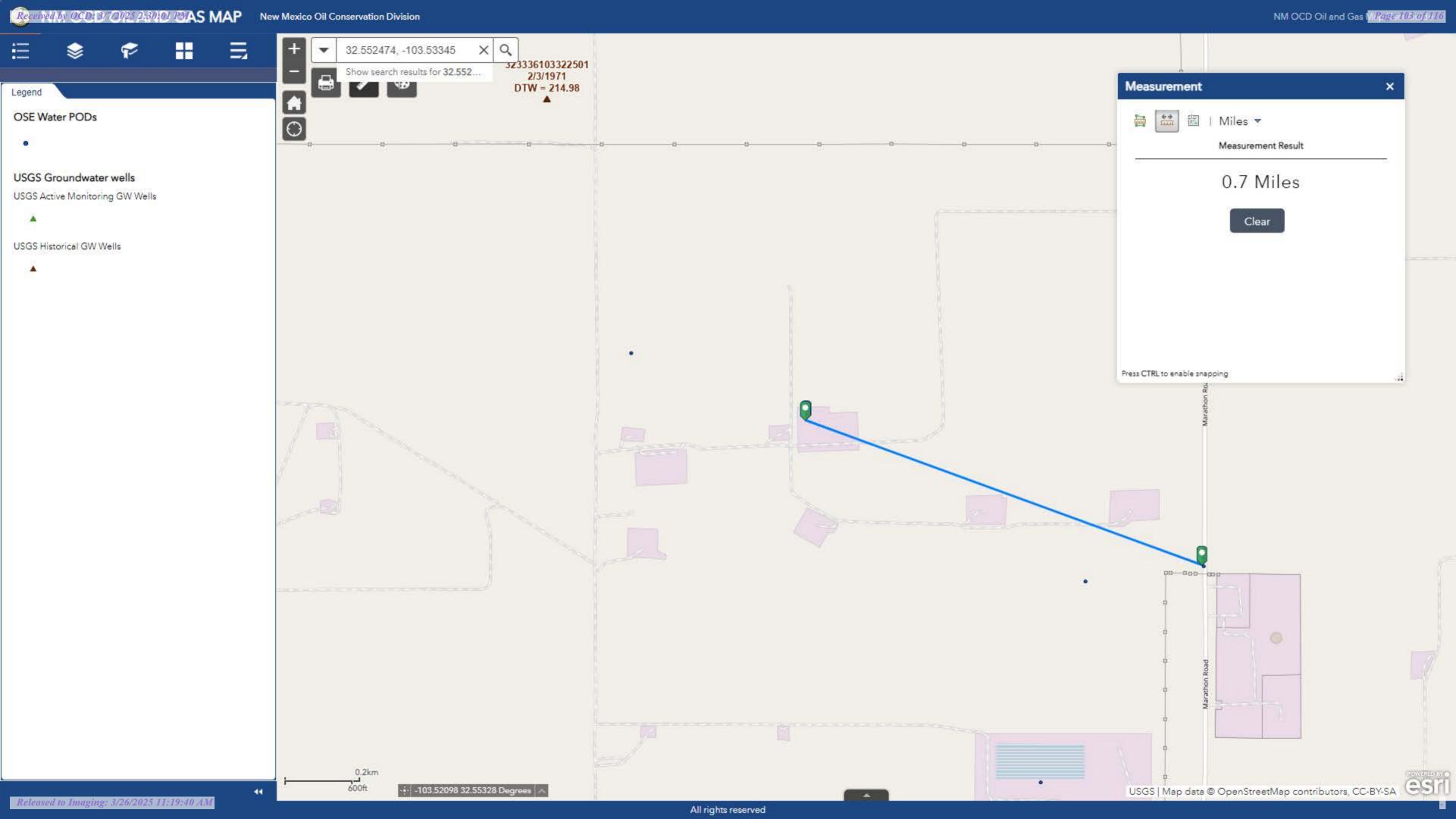
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

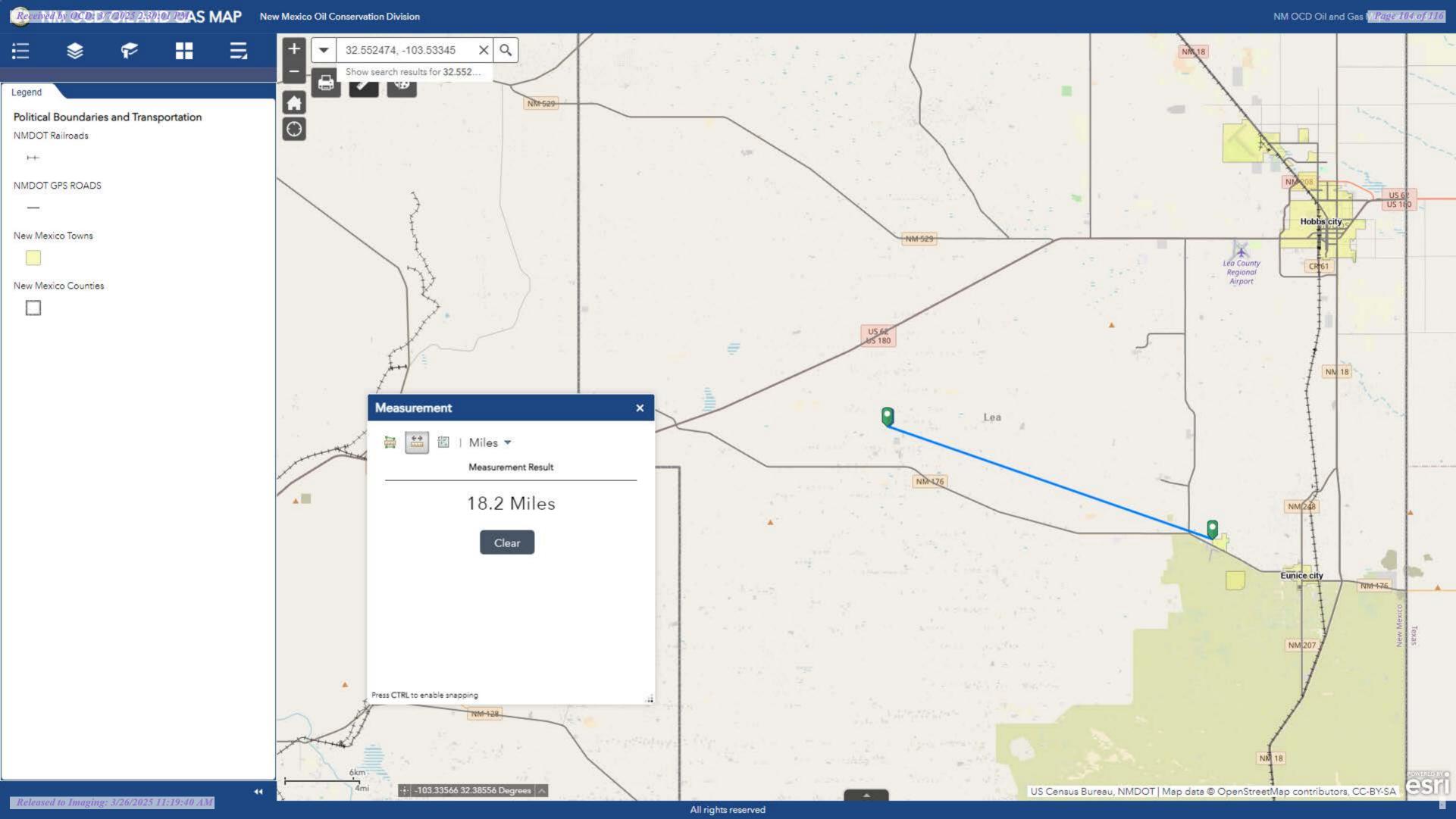
New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

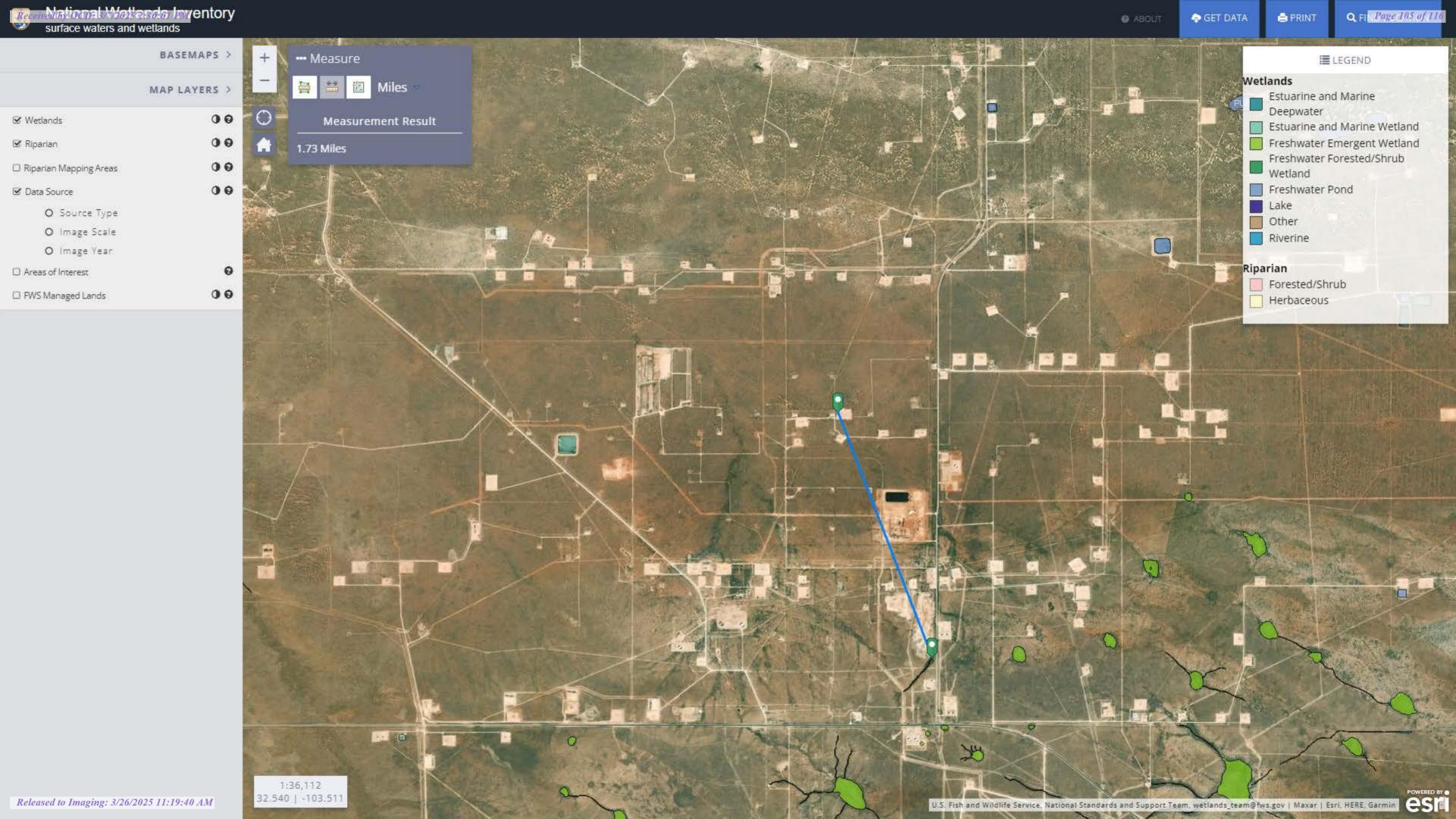
# Appendix F Supplemental Site Characterization Maps

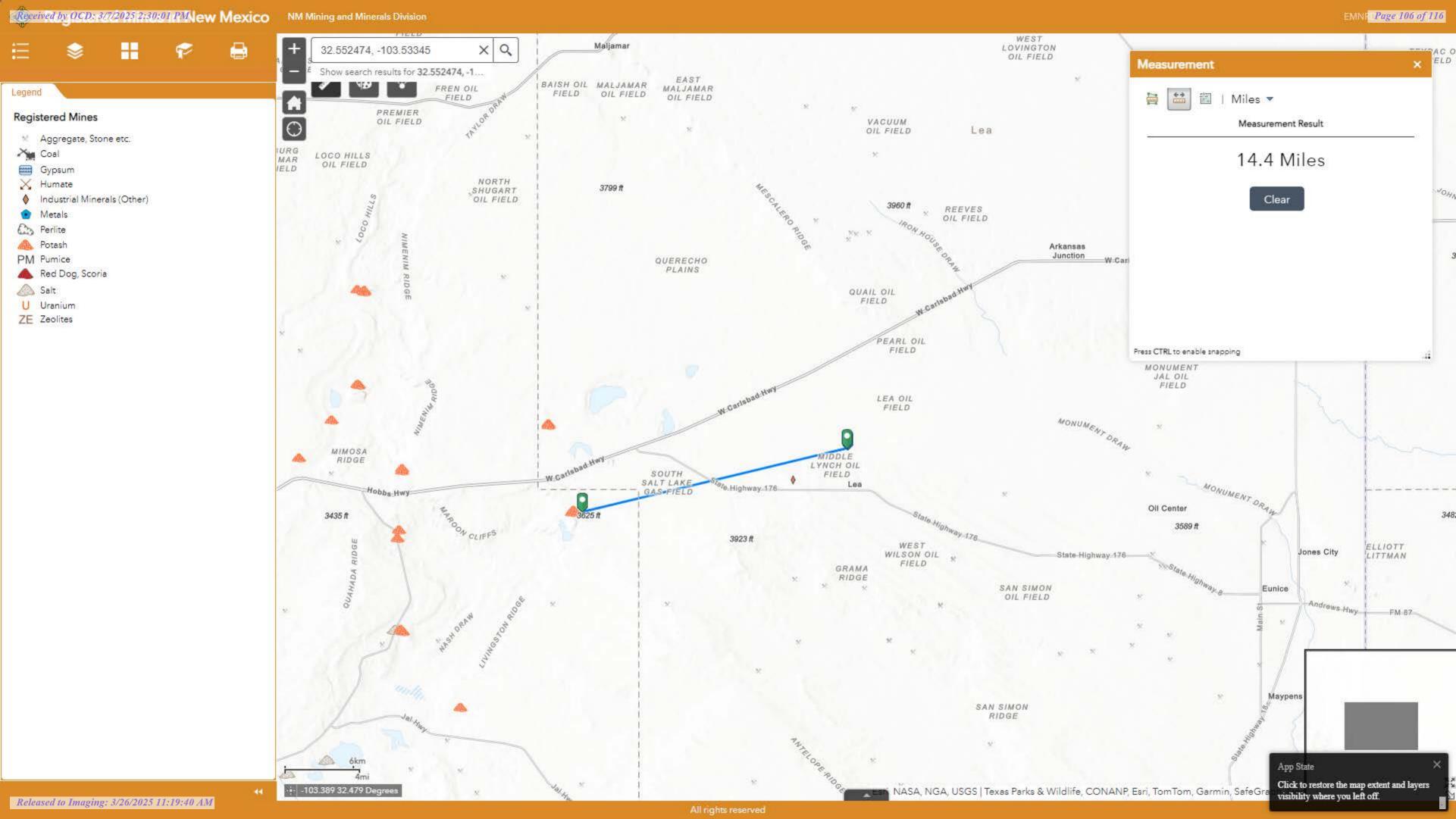


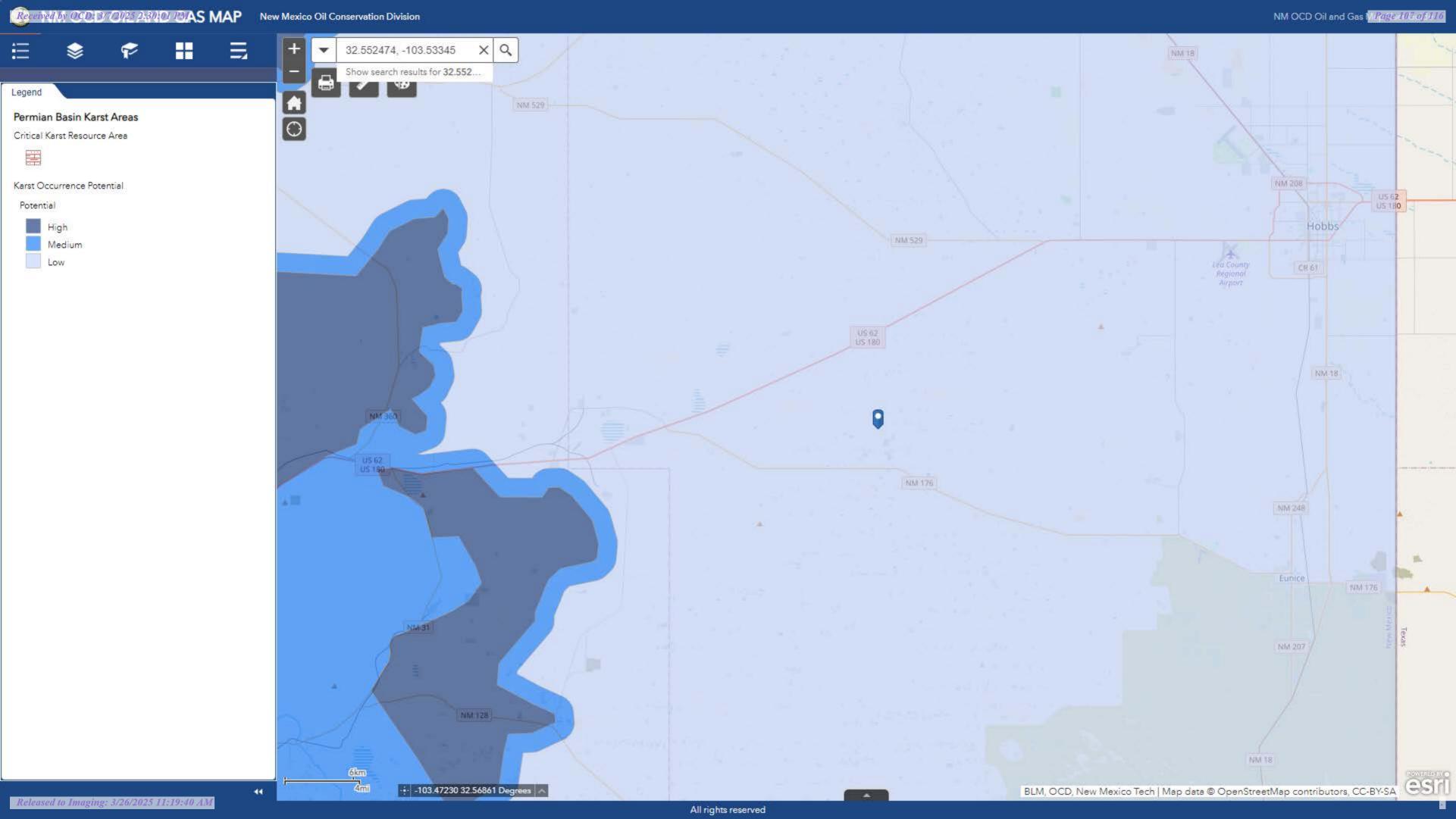


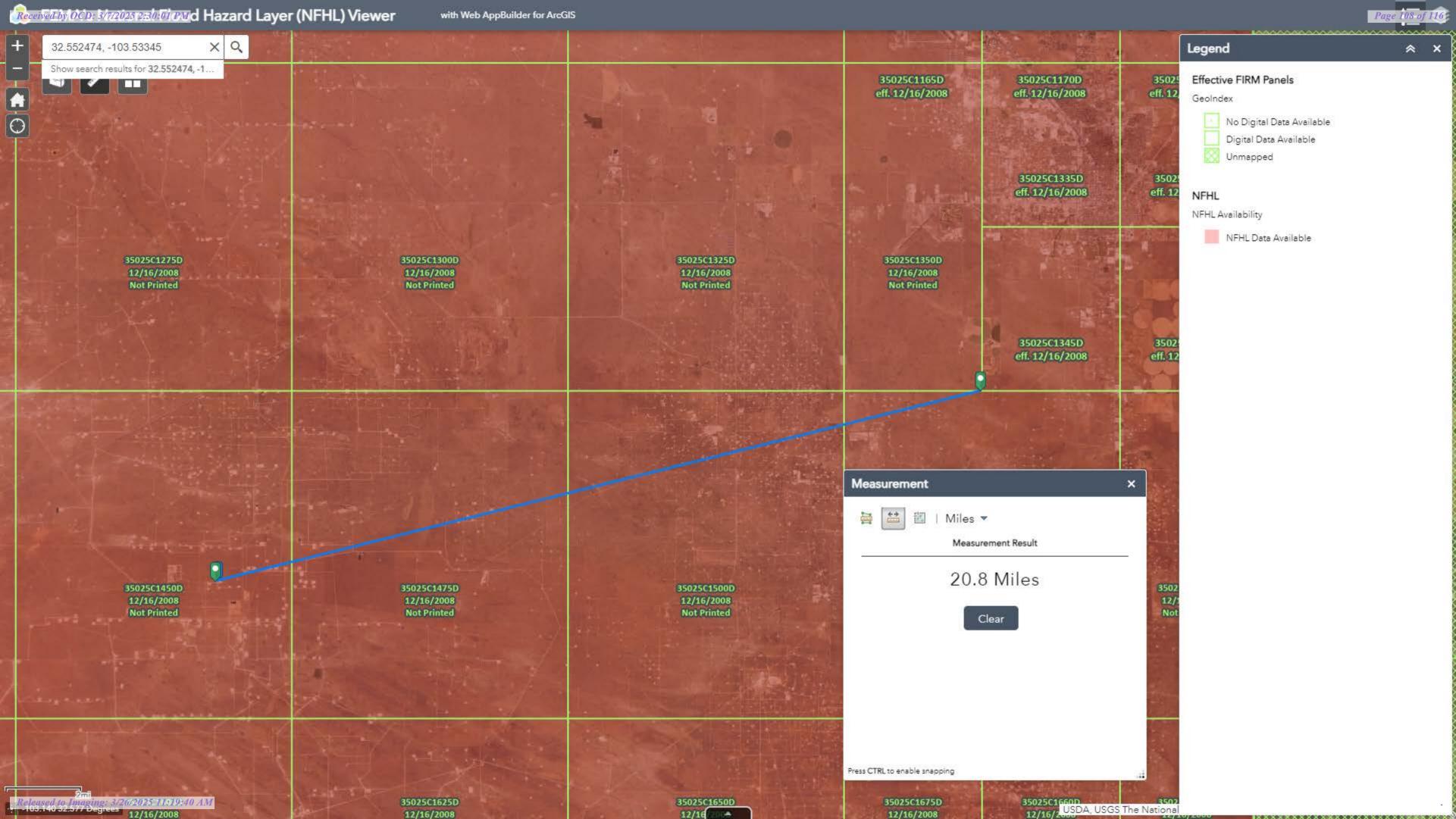












Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 440321

# **QUESTIONS**

ı	Operator:	OGRID:
ı	Permian Resources Operating, LLC	372165
ı	300 N. Marienfeld St Ste 1000	Action Number:
ı	Midland, TX 79701	440321
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2426430978
Incident Name	NAPP2426430978 LAGUNA 23 FED COM #001H @ 30-025-40742
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-40742] LAGUNA 23 FEDERAL COM #001H

Location of Release Source						
Please answer all the questions in this group.						
Site Name	LAGUNA 23 FED COM #001H					
Date Release Discovered	09/20/2024					
Surface Owner	Federal					

ncident Details							
Please answer all the questions in this group.							
Incident Type	Produced Water Release						
Did this release result in a fire or is the result of a fire	No						
Did this release result in any injuries	No						
Has this release reached or does it have a reasonable probability of reaching a watercourse	No						
Has this release endangered or does it have a reasonable probability of endangering public health	No						
Has this release substantially damaged or will it substantially damage property or the environment	No						
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No						

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations   Coupling   Produced Water   Released: 40 BBL   Recovered: 0 BBL   Lost: 40 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Action 440321

QUESTIONS (continued)	
Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165 Action Number: 440321 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	rafety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface to does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 09/20/2024

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 3

Action 440321

**QUESTIONS** (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	440321
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

# QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	Direct Measurement	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents	s of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully	delineated Yes	
Was this release entirely contained within a lined containment a	area No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	6640	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1650	
GRO+DRO (EPA SW-846 Method 8015M)	1320	
BTEX (EPA SW-846 Method 8021B of	or 8260B) 0.1	
Benzene (EPA SW-846 Method 8021B	or 8260B) 0.1	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	12/30/2024	
On what date will (or did) the final sampling or liner inspection of	occur 01/02/2025	
On what date will (or was) the remediation complete(d)	01/10/2025	
What is the estimated surface area (in square feet) that will be	reclaimed 3900	
What is the estimated volume (in cubic yards) that will be reclain	med 670	
What is the estimated surface area (in square feet) that will be	remediated 3900	
What is the estimated volume (in cubic yards) that will be remediated 190		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 440321

**QUESTIONS** (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	440321
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Pemediation Plan (continued)	
Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
OTHER (Non-listed remedial process)  Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Name: Matthew Taylor Title: Environmental Coordinator I hereby agree and sign off to the above statement Email: matthew.taylor@permianres.com Date: 03/07/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 5

Action 440321

QUESTIONS (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	440321
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

Action 440321

QUESTIONS (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	440321
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	415870
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/06/2025
What was the (estimated) number of samples that were to be gathered	60
What was the sampling surface area in square feet	9000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3900
What was the total volume (cubic yards) remediated	190
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	3900
What was the total volume (in cubic yards) reclaimed	670
Summarize any additional remediation activities not included by answers (above)	All remediation activities have been completed at the site.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Matthew Taylor

Title: Environmental Coordinator

Email: matthew.taylor@permianres.com

Date: 03/07/2025

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 7

Action 440321

**QUESTIONS** (continued)

Operator:	OGRID:
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300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	440321
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 440321

#### **CONDITIONS**

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	440321
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By		Condition Date
scwells	None	3/26/2025