

# Trinity Oilfield Services & Rentals, LLC



July 10<sup>th</sup>, 2024

Oil Conservation Division, District I  
1625 N. French Drive  
Hobbs, NM 88240

Re: **Remediation Plan Request**  
**Southeast Maljamar GB/SA Unit #410**  
**Tracking #: NAPP2401758024**

Trinity Oilfield Services (Trinity), on behalf of Cross Timbers Energy, LLC, hereby submits the following Remediation Plan Request in response to a release that occurred at the above-referenced location, and further described below.

Site Information	
Incident ID	NAPP2401758024
Site Name	Southeast Maljamar GB/SA Unit #410
Lease ID	B025160055
Company	Cross Timbers Energy, LLC
County	Lea
ULSTR	M-29-17S-33E
GPS Coordinates (NAD 83)	32.803999, -103.690407
Landowner	Private

## RELEASE BACKGROUND

On 01/17/2024, Cross Timbers Energy, LLC reported a release at the Southeast Maljamar GB/SA Unit #410. The release was caused by a freeze. Approximately 1,109 sqft. of the Pasture was found to be damp upon initial inspection.

Release Information	
Date of Release	01/16/2024
Type of Release	Crude Oil and Produced Water
Source of Release	Freeze
Volume Released – Produced Water	10 bbls
Volume Recovered – Produced Water	9 bbls
Volume Released – Crude Oil	4 bbls
Volume Recovered – Crude Oil	3 bbls
Affected Area – Damp Soil	Pasture - Approximately 1,109 sqft.
Site Location Map	Attached

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

### Depth to Groundwater/Wellhead Protection:

Data Source	Well Number	Data Date	Depth (ft.)
NM OSE	NA	NA	NA
USGS	NA	NA	NA
Soil Bore	TBD	TBD	55'

A search of the groundwater well databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) was conducted to determine if any registered groundwater wells are located within a  $\frac{1}{2}$  mile of the release site. The search revealed that Zero (0) wells occurred in the databases that meet the NMOCD criteria for the age of data, the distance of the data point well from the release point, and a data point well having a diagram of construction.

Trinity proposes to drill a groundwater determination borehole to 55' below ground surface within a  $\frac{1}{2}$  mile radius of the incident location. The borehole will be left open for 72 hours and checked for the presence of groundwater. The driller log will be attached for reference.

#### General Site Characterization:

Site Assessment	
Karst Potential	Low
Distance to Watercourse	> 1,000 ft.
Within 100 yr Floodplain	No
Pasture Impact	Yes

A risk-based site assessment/characterization was performed following the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). To summarize the site assessment/characterization evaluation, the affected area has potential for cave and karst, and no other receptors (residence, school, hospital, institution, church, mining, municipal, or other ordinance boundaries) were located within the regulatorily promulgated distances from the site.

#### Proposed Closure Criteria:

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH will be applied to the top four feet of the pasture area if impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

Site & Pasture 4ft bgs   Recommended Remedial Action Levels (RRALs)		
Depth to Groundwater	Unknown	55'
Chlorides	600 mg/kg	10,000 mg/kg
TPH (GRO and DRO and MRO)	100 mg/kg	2,500 mg/kg
TPH (GRO and DRO)	NE	1,000 mg/kg
BTEX	50 mg/kg	50 mg/kg
Benzene	10 mg/kg	10 mg/kg

#### INITIAL ASSESSMENT AND REMEDIATION ACTIVITIES

##### Initial Sample Activities:

Delineation Summary	
Delineation Dates	01/23/2024 - 03/15/2024
Depths Sampled	0' - 4'
Delineation Map	Attached
Laboratory Results	Table 1

All soil samples were placed into laboratory-supplied glassware, labeled, and maintained on ice until delivery to an NMOCD-approved laboratory (Cardinal Laboratories of Hobbs, NM) for the analysis of chloride using Method SM4500 Cl-B, Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8021 B and Total Petroleum Hydrocarbon (TPH) constituents the by EPA 8015M.

**Confirmation Activities:**

<b>Remediation Summary</b>	
Remediation Dates	Within 90 Days of NMOCD Approval
Liner Variance Request	None
Deferral Request	None
Proposed Depths Excavated	4'
Proposed Area of 5-point Confirmation Samples – Floors and Walls	200 sqft.
Estimated Total Volume of Excavated Soil	240 yards

Impacted soil within the release margins will be excavated and temporarily stockpiled on-site on a 6-mil plastic sheeting, pending final disposition. Unless a Variance Request has been approved, all floors and walls of the excavated area will be advanced until laboratory analytical results from confirmation soil samples indicate Chloride, Benzene, BTEX, and TPH concentrations meet reclamation standards and are below the RRAL NMOCD Closure Criteria listed in the Table above at 4'. Confirmation soil samples (five-point composites representing no more than 200 sqft. of the excavated area) will be collected from the floor and sidewalls.

Upon receiving laboratory analytical data showing that confirmation soil samples from the excavated areas yield results below the selected NMOCD Table 1 Closure Criteria; the impacted soil will be transported under manifest to an NMOCD-approved disposal facility. Upon approval, the excavated area will be backfilled with locally sourced, non-impacted "like" material.

**SITE RECLAMATION AND RESTORATION**

Areas affected by the release and the associated remediation activities will be restored to a condition which existed prior to the release to the extent practicable. The affected area will be contoured and/or compacted to provide erosion control, stability, and preservation of surface water flow. Affected areas not on production pads and/or lease roads will be reseeded with a prescribed BLM, NMSLO, and/or Private Landowner requested seed mixture during the first favorable growing season following closure of the site in accordance with the applicable regulatory agency.

**REQUEST FOR REMEDIATION PLAN APPROVAL**

<b>Supporting Documentation</b>	
Delineation Map	Attached
Depth to Groundwater Maps and Source	Attached
US NWI Map	Attached
FEMA Flood Hazard Map	Attached
USDA Soil Survey	Attached
Site Photography	Attached
Laboratory Analytics with COCs	Attached

The corrective actions will be completed within 90 days of receipt of approval of this remediation plan proposal by the NMOCD. Upon completion of the proposed tasks, a "Remediation Closure Request" will be submitted, documenting remediation activities and results of confirmation soil samples.

Trinity Oilfield Services respectfully requests that the New Mexico Oil Conservation Division grant approval for the detailed Remediation Plan.

Sincerely,

*Dan Dunkelberg*

Dan Dunkelberg  
Project Manager

*Cynthia Jordan*

Cynthia Jordan  
Project Scientist

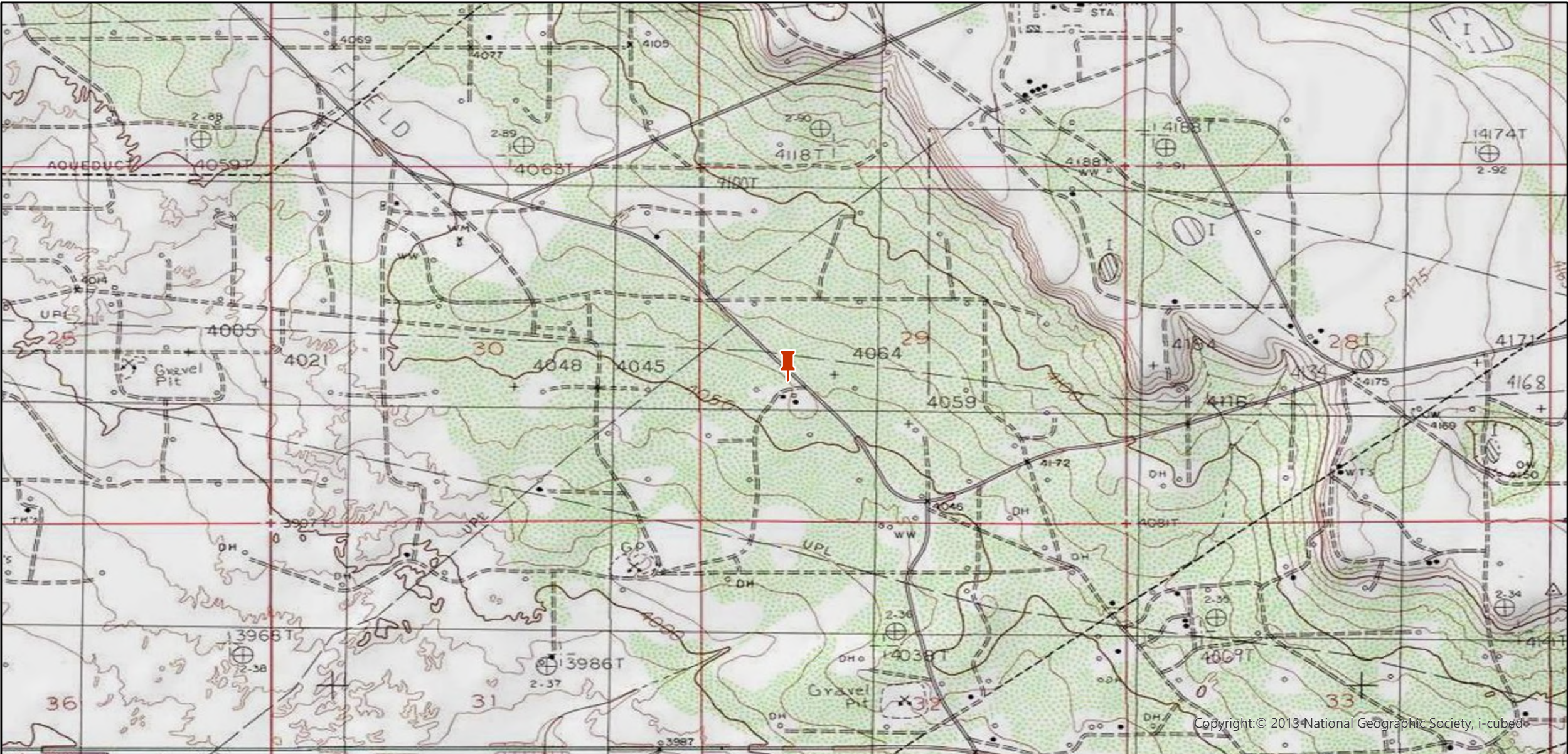
TABLE 1  
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

CROSS TIMBERS ENERGY, LLC  
SOUTHEAST MALJAMAR GB/SA UNIT #410  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE #: NAPP2401758024



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	VERTICAL/ HORIZONTAL	OFF-SITE/ ON-SITE	SAMPLE TYPE	SOIL STATUS	CHLORIDE (mg/Kg)	TPH C6-C36 (mg/Kg)	GRO+ DRO (mg/kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	MRO C28-C36 (mg/Kg)	TOTAL BTEX (mg/Kg)	BENZENE (mg/Kg)
On-Site, & Deeper than 4' Pasture							10000	2500	1000	NE	NE	NE	50	10
Delineation Special Circumstance, NMOCD Delineation Limits Pasture to 4'							600	100	NE	NE	NE	NE	50	10
Vertical Delineation														
DV-001.0-00.0-P	0	1/23/2024	Vertical	Off-Site	Grab	In-Situ	17,400.0	15,810.0	13,330.0	1,330.0	12,000.0	2,480.0	67.4	1.44
DV-001.0-04.0-P	4	1/23/2024	Vertical	Off-Site	Grab	In-Situ	2,000.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-002.0-00.0-P	0	3/15/2024	Vertical	Off-Site	Grab	In-Situ	5,360.0	126.7	85.0	<10.0	85.0	41.7	<10.0	<10.0
DV-002.0-04.0-P	4	3/15/2024	Vertical	Off-Site	Grab	In-Situ	2,000.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Horizontal Delineation														
DH-001.0-01.0-P	1	1/23/2024	Horizontal	Off-Site	Grab	In-Situ	336.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-002.0-01.0-P	1	1/23/2024	Horizontal	Off-Site	Grab	In-Situ	400.0	23.4	11.8	<10.0	11.8	11.6	<10.0	<10.0
DH-002.1-01.0-P	1	1/23/2024	Horizontal	Off-Site	Grab	In-Situ	288.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-003.0-01.0-P	1	1/23/2024	Horizontal	Off-Site	Grab	In-Situ	32.0	1,430.0	657.0	<10.0	657.0	773.0	<10.0	<10.0
DH-003.1-01.0-P	1	1/23/2024	Horizontal	Off-Site	Grab	In-Situ	32.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-004.0-01.0-P	1	1/23/2024	Horizontal	Off-Site	Grab	In-Situ	1,410.0	1,953.0	1,180.0	<10.0	1,180.0	773.0	<10.0	<10.0
DH-004.1-01.0-P	1	1/23/2024	Horizontal	Off-Site	Grab	In-Situ	304.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

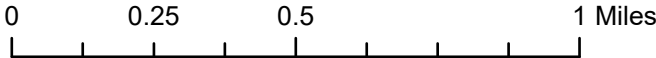




**Legend:**

 Site Location

**Site Location Map**  
**Cross Timbers Energy, LLC**  
**Southeast Maljamar GB/SA Unit #410**  
**Lea County, New Mexico**  
**32.803999, -103.690407**  
**NMOCD Reference # NAPP2401758024**







**Legend:**

- |                          |                                |
|--------------------------|--------------------------------|
| ★ Point of Release       | Release Area                   |
| ● Vertical Delineation   | Lab-Determined Excavation Area |
| ● Horizontal Delineation |                                |

**Delineation Map**  
**Cross Timbers Energy, LLC**  
**Southeast Maljamar GB/SA Unit #410**  
**Lea County, New Mexico**  
**32.803999, -103.690407**  
**NMOCD Reference # NAPP2401758024**





## Initial Release

Pasture:



Pasture:







## Initial Release

Pasture:



Pasture:





## Initial Release

Pasture:



Pasture:







## Initial Release

Pasture:



Pasture:





## Initial Release

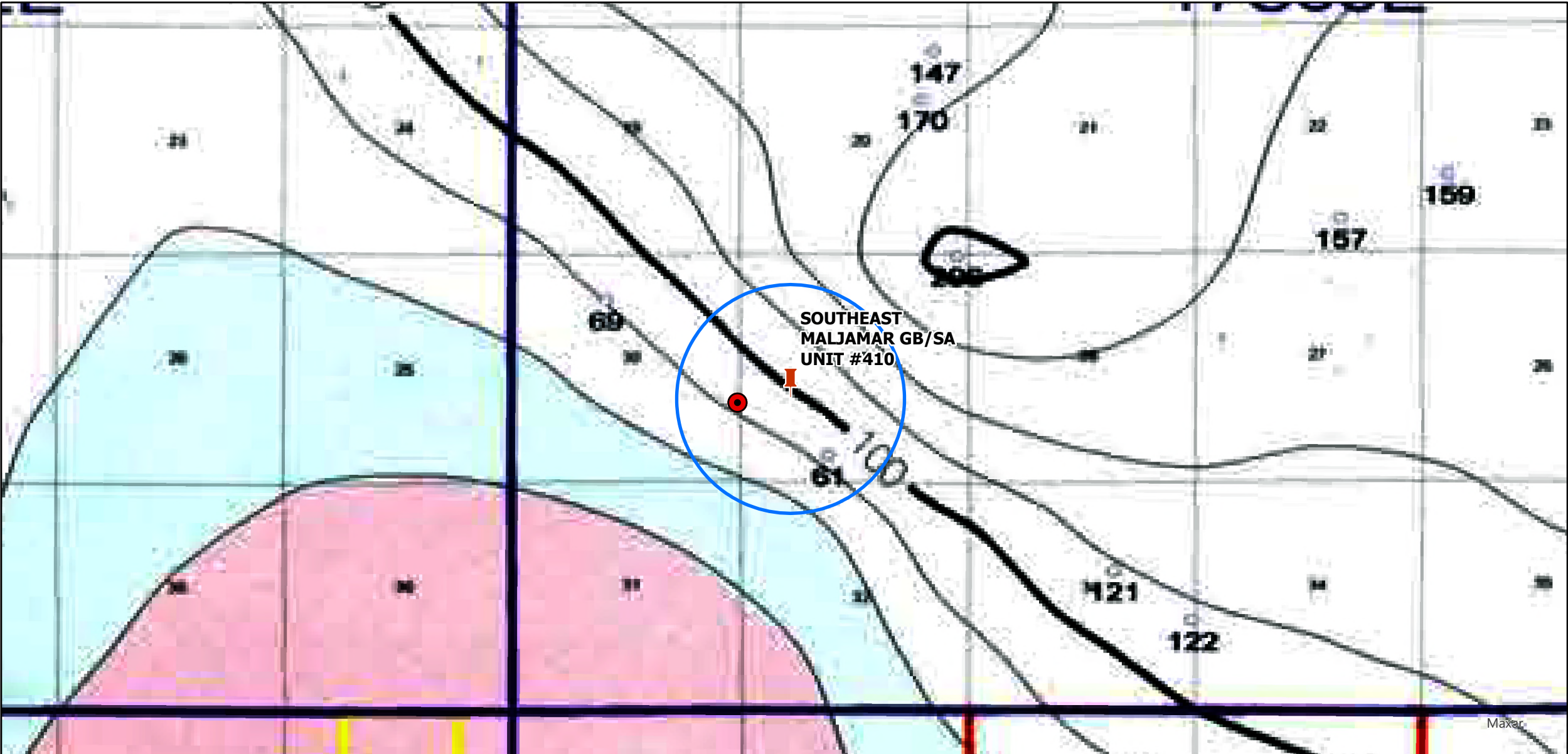
Pasture:






Pasture:







**Legend:**

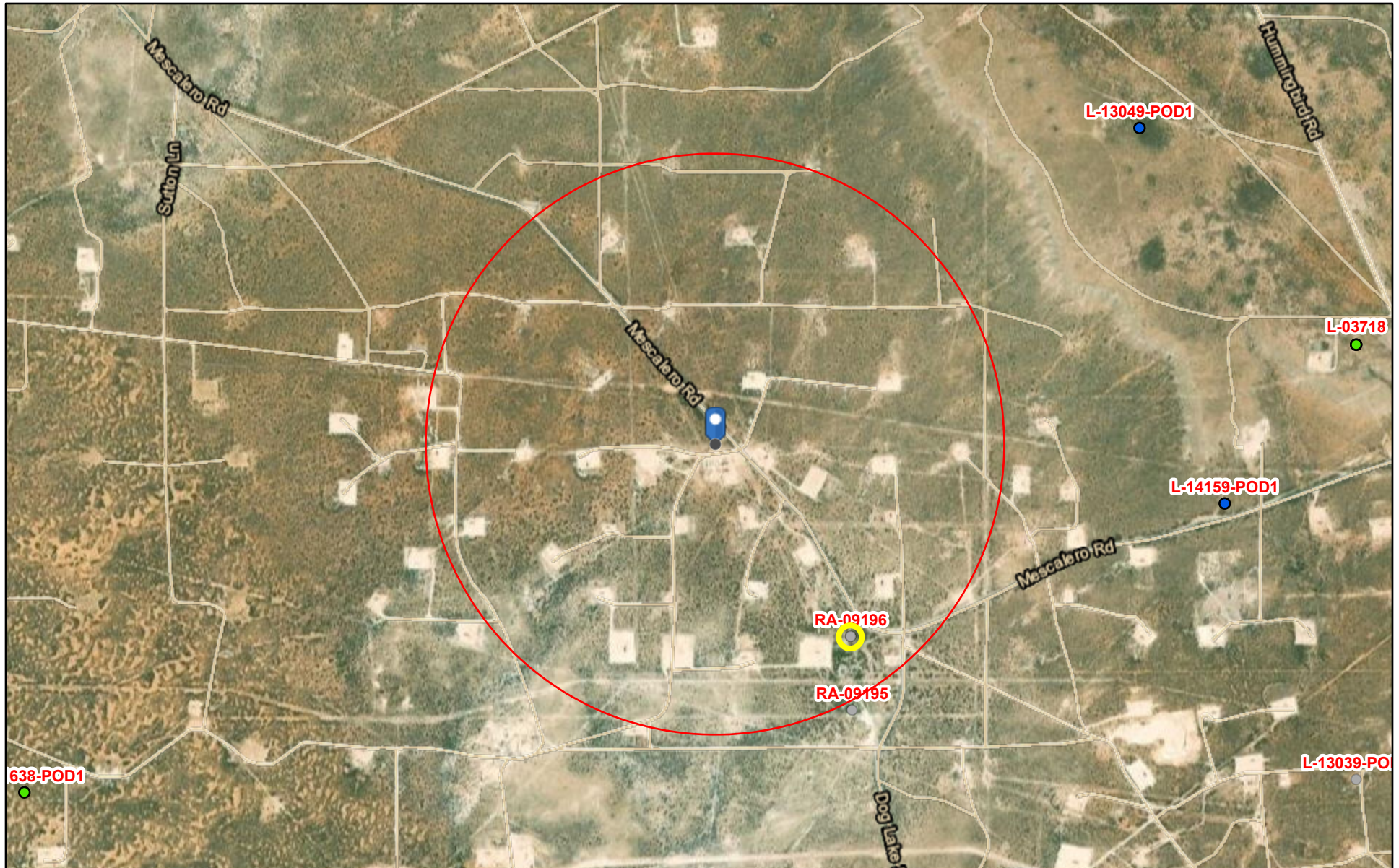
-  Site Location
-  Anticipated Soil Bore
-  1/2 Mile Buffer

Anticipated Soil Bore Map  
Cross Timbers Energy, LLC  
Southeast Maljamar GB/SA Unit #410  
Lea County, New Mexico  
32.803999, -103.690407  
NMOCD Reference # NAPP2401758024





## NAPP2401758024 | SOUTHEAST MALJAMAR GB/SA UNIT #410



4/10/2024, 9:22:30 AM

GIS WATERS PODs



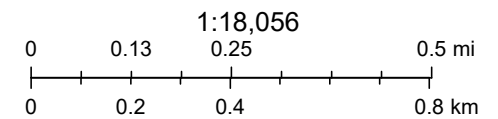
Pending



Plugged



Active



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Online web user

This is an unofficial map from the OSE's online application.





U.S. Fish and Wildlife Service

## National Wetlands Inventory

NAPP2401758024 |

SOUTHEAST MALJAMAR GB/SA UNIT #410



April 10, 2024

## Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMette



103°41'44"W 32°48'30"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



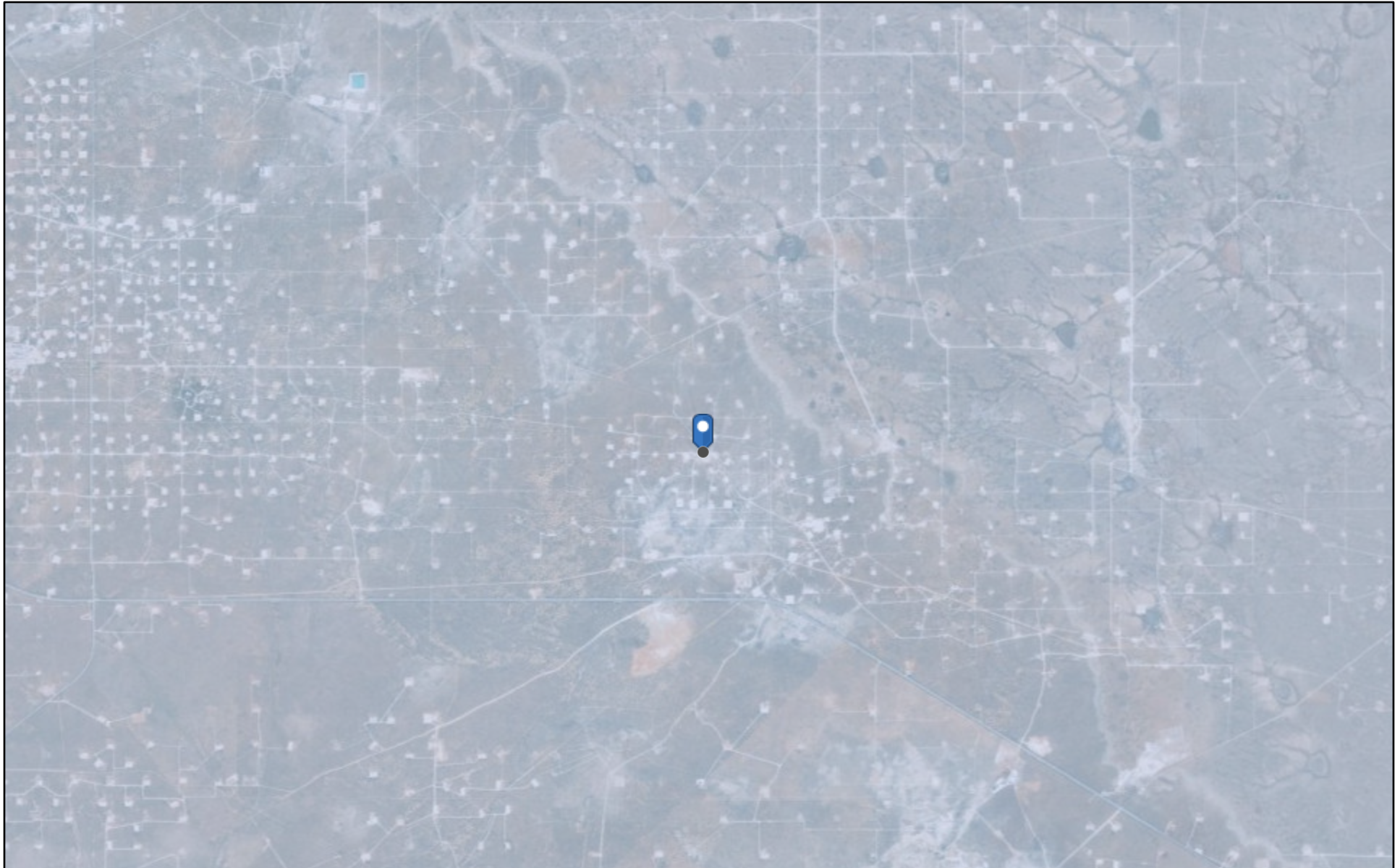
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/10/2024 at 2:03 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

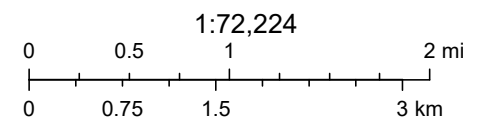
# NAPP2401758024 | SOUTHEAST MALJAMAR GB/SA UNIT #410



4/10/2024, 12:09:06 PM

Karst Occurrence Potential

Low



BLM, OCD, New Mexico Tech, Earthstar Geographics



Soil Map—Lea County, New Mexico  
(NAPP2401758024 SOUTHEAST MALJAMAR GB/SA UNIT #410 )



Natural Resources  
Conservation Service


Web Soil Survey  
National Cooperative Soil Survey

1/22/2024  
Page 1 of 3

Soil Map—Lea County, New Mexico  
(NAPP2401758024 SOUTHEAST MALJAMAR GB/SA UNIT #410 )


## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PY	Pyote soils and Dune land	1.6	100.0%
Totals for Area of Interest		1.6	100.0%



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 01, 2024

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: SEMU 410

Enclosed are the results of analyses for samples received by the laboratory on 01/29/24 14:17.

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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	01/29/2024	Sampling Date:	01/23/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	SEMU 410	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CROSS TIMBERS-LEA CO., NM		

**Sample ID: DV-001.0-00.0-P (H240387-01)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.44</b>	0.200	01/30/2024	ND	2.22	111	2.00	2.14	
<b>Toluene*</b>	<b>11.9</b>	0.200	01/30/2024	ND	2.20	110	2.00	1.94	
<b>Ethylbenzene*</b>	<b>20.4</b>	0.200	01/30/2024	ND	2.18	109	2.00	1.98	
<b>Total Xylenes*</b>	<b>33.7</b>	0.600	01/30/2024	ND	6.36	106	6.00	1.99	
<b>Total BTEX</b>	<b>67.4</b>	1.20	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>17400</b>	16.0	01/30/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1330</b>	100	01/31/2024	ND	198	98.9	200	2.97	
<b>DRO &gt;C10-C28*</b>	<b>12000</b>	100	01/31/2024	ND	200	99.9	200	6.69	
<b>EXT DRO &gt;C28-C36</b>	<b>2480</b>	100	01/31/2024	ND					

Surrogate: 1-Chlorooctane 214 % 48.2-134

Surrogate: 1-Chlorooctadecane 252 % 49.1-148

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 and any other cause whatsoever 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 damages, 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 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.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: SEMU 410  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS-LEA CO., NM

Sampling Date: 01/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: DV-001.0-04.0-P (H240387-02)**

BTEx 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	01/30/2024	ND	2.22	111	2.00	2.14	
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	198	98.9	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	200	99.9	200	6.69	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: SEMU 410  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS-LEA CO., NM

Sampling Date: 01/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: DH-001.0-01.0-P (H240387-03)**

BTEx 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	01/30/2024	ND	2.22	111	2.00	2.14	
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	198	98.9	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	200	99.9	200	6.69	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: SEMU 410  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS-LEA CO., NM

Sampling Date: 01/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: DH-002.0-01.0-P (H240387-04)**

BTEX 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	01/30/2024	ND	2.22	111	2.00	2.14		
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	198	98.9	200	2.97	
DRO >C10-C28*	11.8	10.0	01/30/2024	ND	200	99.9	200	6.69	
EXT DRO >C28-C36	11.6	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: SEMU 410  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS-LEA CO., NM

Sampling Date: 01/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: DH-002.1-01.0-P (H240387-05)**

BTEx 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	01/30/2024	ND	2.22	111	2.00	2.14	
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	198	98.9	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	200	99.9	200	6.69	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: SEMU 410  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS-LEA CO., NM

Sampling Date: 01/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: DH-003.0-01.0-P (H240387-06)**

BTEX 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	01/30/2024	ND	2.22	111	2.00	2.14		
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/30/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	198	98.9	200	2.97	
DRO >C10-C28*	657	10.0	01/30/2024	ND	200	99.9	200	6.69	
EXT DRO >C28-C36	773	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 167 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: SEMU 410  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS-LEA CO., NM

Sampling Date: 01/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: DH-003.1-01.0-P (H240387-07)**

BTEX 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	01/30/2024	ND	2.22	111	2.00	2.14		
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	198	98.9	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	200	99.9	200	6.69	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: SEMU 410  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS-LEA CO., NM

Sampling Date: 01/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: DH-004.0-01.0-P (H240387-08)**

BTEX 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	01/30/2024	ND	2.26	113	2.00	0.00234	
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	198	98.9	200	2.97	
DRO >C10-C28*	1180	10.0	01/30/2024	ND	200	99.9	200	6.69	
EXT DRO >C28-C36	773	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: SEMU 410  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS-LEA CO., NM

Sampling Date: 01/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: DH-004.1-01.0-P (H240387-09)**

BTEX 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	01/30/2024	ND	2.26	113	2.00	0.00234	
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	198	98.9	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	200	99.9	200	6.69	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

<div style="display: flex; align-items: center;"> <div> <b>CARDINAL</b>  <b>Laboratories</b> </div> </div>															101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476															<b>CHAIN-OF-CUSTODY AND ANALYSIS REQUEST</b>																			
Company Name: Trinity Oilfield Services															<b>BILL TO</b>															<b>ANALYSIS REQUEST</b>																			
Project Manager: Dan Dunkelberg															P.O. #:																																		
Address: 8426 N Dal Paso															Company: Cross Timbers Energy																																		
City: Hobbs										State: NM Zip: 88241					Attn: Kevin Bennett																																		
Phone #:										Fax #:					Address:																																		
Project #:										Project Owner: (see below)										City:																													
Project Name: SEMU 410										dan@trinityoilfieldservices.com										State:					Zip:																								
Project Location: Lea Co., NM															Phone #:																																		
Sampler Name: GM															Fax #:																																		
<b>FOR LAB USE ONLY</b>																																																	
<div style="display: flex; justify-content: space-between;"> <div> <b>Lab I.D.</b>  <div style="font-size: 2em; color: blue; margin-top: 10px;">H240389</div> </div> <div> <b>Sample I.D.</b> </div> </div>															<b>MATRIX</b>					<b>PRESERV.</b>					<b>SAMPLING</b>																								
															(GRAB OR C/COMP. # CONTAINERS) GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :					ACID/BASE: ICE / COOL OTHER :					DATE TIME																								
1															G 1					X					1/23/2024					X X X																			
2															G 1					X					1/23/2024					X X X																			
3															G 1					X					1/23/2024					X X X																			
4															G 1					X					1/23/2024					X X X																			
5															G 1					X					1/23/2024					X X X																			
6															G 1					X					1/23/2024					X X X																			
7															G 1					X					1/23/2024					X X X																			
8															G 1					X					1/23/2024					X X X																			
9															G 1					X					1/23/2024					X X X																			
--																																																	
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Relinquished By:															Date: 1-29-24 Time: 14:15					Received By:										Verbal Result: Yes No Add'l Phone #:																			
Relinquished By:															Date: Time:					Received By:										REMARKS:																			
Delivered By: (Circle One)															Observed Temp. °C <div style="font-size: 1.5em; color: blue;">21.0</div>					Sample Condition Cool Intact <div style="display: flex; justify-content: space-around;"> <div>Yes No</div> <div>Yes No</div> </div>					CHECKED BY: <div style="font-size: 1.5em; color: blue;">SJC</div>										Turnaround Time: Standard Rush X														
Sampler - UPS - Bus - Other:															Corrected Temp. °C					Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <div style="display: flex; justify-content: space-around;"> <div>Yes No</div> <div>Yes No</div> </div>					Thermometer ID #140 Correction Factor @ °C																								

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 26, 2024

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: SEMU 410

Enclosed are the results of analyses for samples received by the laboratory on 03/20/24 15:25.

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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	03/20/2024	Sampling Date:	03/15/2024
Reported:	03/26/2024	Sampling Type:	Soil
Project Name:	SEMU 410	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	CROSS TIMBERS-LEA CO., NM		

**Sample ID: DV-002.0-00.0-P (H241468-01)**

BTEX 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	03/22/2024	ND	2.15	107	2.00	1.86	
Toluene*	<0.050	0.050	03/22/2024	ND	2.16	108	2.00	2.08	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.14	107	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	6.48	108	6.00	2.55	
Total BTEX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5360	16.0	03/22/2024	ND	432	108	400	3.64		

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	03/21/2024	ND	178	88.8	200	1.49	
DRO >C10-C28*	85.0	10.0	03/21/2024	ND	193	96.3	200	2.48	
EXT DRO >C28-C36	41.7	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 03/20/2024  
 Reported: 03/26/2024  
 Project Name: SEMU 410  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS-LEA CO., NM

Sampling Date: 03/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: DV-002.0-04.0-P (H241468-02)**

BTEx 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	03/22/2024	ND	2.15	107	2.00	1.86	
Toluene*	<0.050	0.050	03/22/2024	ND	2.16	108	2.00	2.08	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.14	107	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	6.48	108	6.00	2.55	
Total BTEX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	03/22/2024	ND	432	108	400	3.64	

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	03/21/2024	ND	178	88.8	200	1.49	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	193	96.3	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07        The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

QUESTIONS  
  
Action 331829

QUESTIONS

Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID:
	298299
	Action Number:
	331829
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401758024
Incident Name	NAPP2401758024 SOUTHEAST MALJAMAR GB/SA UNIT #410 @ 30-025-26026
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-26026] SOUTHEAST MALJAMAR GB/SA UNIT #410

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SOUTHEAST MALJAMAR GB/SA UNIT #410
Date Release Discovered	01/16/2024
Surface Owner	Private

Incident 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	Cause: Freeze   Flow Line - Production   Crude Oil   Released: 4 BBL   Recovered: 3 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Freeze   Flow Line - Production   Produced Water   Released: 10 BBL   Recovered: 9 BBL   Lost: 1 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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QUESTIONS, Page 2

Action 331829

**QUESTIONS (continued)**

Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID:	298299
	Action Number:	331829
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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.

I hereby agree and sign off to the above statement	Name: Dan Dunkelberg Title: Consultant Email: dan@trinityoilfieldservices.com Date: 01/22/2024
--	---

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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 331829

**QUESTIONS (continued)**

Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID:
	298299
	Action Number:
	331829
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

**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 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 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 ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 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

**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 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 area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	17400
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	15810
GRO+DRO	(EPA SW-846 Method 8015M)	13330
BTEX	(EPA SW-846 Method 8021B or 8260B)	67.4
Benzene	(EPA SW-846 Method 8021B or 8260B)	1.4

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	10/14/2024
On what date will (or did) the final sampling or liner inspection occur	10/14/2024
On what date will (or was) the remediation complete(d)	02/17/2025
What is the estimated surface area (in square feet) that will be reclaimed	1617
What is the estimated volume (in cubic yards) that will be reclaimed	240
What is the estimated surface area (in square feet) that will be remediated	1617
What is the estimated volume (in cubic yards) that will be remediated	240

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**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 331829

**QUESTIONS (continued)**

Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID:	298299
	Action Number:	331829
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS****Remediation Plan (continued)**

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.

**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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Sundance Services, Inc [fKJ1600527371]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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.

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.

I hereby agree and sign off to the above statement	Name: Dan Dunkelberg Title: Consultant Email: dan@trinityoilfieldservices.com Date: 07/17/2024
--	---

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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**Santa Fe, NM 87505**

QUESTIONS, Page 5  
  
Action 331829

QUESTIONS (continued)

Operator:  CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID:  298299
	Action Number:  331829
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

<b>Deferral Requests Only</b>	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

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Action 331829

QUESTIONS (continued)

Operator:  CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID:  298299
	Action Number:  331829
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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	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 331829

CONDITIONS

Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID: 298299
	Action Number: 331829
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	The remediation plan is approved as written. Cross Timbers has 90-days (October 22, 2024) to submit to OCD its appropriate or final remediation closure report.	7/24/2024