

<b>Spill Volume(Bbls) Calculator</b>		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
100.000	10.000	2.000
Cubic Feet Impacted		166.667
Barrels		29.68
Soil Type		Lined Containment
Bbls Assuming 100% Saturation		29.68
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		29.70000

<b>Instructions</b>	
1. Input spill measurements below. Length and width need to be input in feet and depth in inches.	
2. Select a soil type from the drop down menu.	
3. Select a saturation level from the drop down menu.	
(For data gathering instructions see appendix tab)	

<b>Measurements</b>	
Length (ft)	100
Width (ft)	10
Depth (in)	2



June 4, 2024

NMOCD District 2  
 Mike Bratcher  
 Artesia, NM 88210

Bureau of Land Management  
 Crisha Morgan  
 Carlsbad Field Office

**Re: Site Assessment, Remediation, and Closure Request  
 Moore State Tank Battery  
 API No. N/A  
 GPS: Latitude 32.79191 Longitude -104.15668  
 UL "H", Sec. 34, T17S, R28E  
 Eddy County, NM  
 NMOCD Ref. No. nAPP2333952697**

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment and conduct remediation activities for the release site known as the Moore State Tank Battery (Moore). Details of the release are summarized below:

Release Details			
<b>Type of Release:</b>	Produced Water	<b>Volume of Release:</b>	30 bbls
		<b>Volume Recovered:</b>	28 bbls
<b>Source of Release:</b>	Circulating Line	<b>Date of Release:</b>	12/05/23
<b>Was Immediate Notice Given?</b>	Yes	<b>If, Yes, to Whom?</b>	NMOCD Portal
<b>Was a Watercourse Reached?</b>	No	<b>If Yes, Volume Impacting Watercourse:</b>	N/A
<b>Surface Owner:</b>	State	<b>Mineral Owner:</b>	State
The circulating line developed a pinhole due to internal corrosion, releasing produced water into the unlined containment.			

Topographical and Aerial Maps are provided in Figures #2 and #4.

## REGULATORY FRAMEWORK & SITE CHARACTERIZATION

Surface impacts from unauthorized releases of fluids or gases are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment/characterization, remediation, closure, variance, and enforcement procedures. Table I of 19.15.29.12 NMAC determines the closure criteria for soils impacted by a release based on depth to groundwater and the following characteristics:

- Depth to Groundwater in the affected area 100-500'
- Method to determine DTW NM OSE
- Did the release impact groundwater or surface water No

Depth to groundwater information is provided in Appendix A.

What are the minimum distances between the closest lateral extents of the release and the following surface areas:

- A Continuously flowing watercourse or any other significant watercourse- > 5 Mile
- Any lakebed, sinkhole, or playa lake- 1-5 mi
- An occupied permanent residence, school, hospital, institution, or church- >5 mi
- A spring or a private domestic freshwater well used by less than 5 households for domestic or stock watering purposes- >5 mi
- Any other freshwater well or spring- >5 mi
- Incorporated municipal boundaries or a defined municipal freshwater well field- 1-5 mi
- A wetland- 1-5 mi
- A subsurface mine- >5 mi
- An (non-karst) unstable area- >5 mi
- Categorize the risk of this well/site being in a karst area geology- Low
- A 100-year floodplain- 1/2-1 mi
- Did the release impact areas not on an exploration, development, production, or storage site- No

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Ogallala Formation (Lower Pliocene to middle Miocene)- Alluvial and eolian deposits, and petrocalcic southern High Plains. Locally includes Qoa (To). The soil in this area is made up of Kimbrough-Stegall loams, with 0 to 3 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained.

The Soil Survey and FEMA Flood Map are provided in Appendix B. A Karst Map is provided in Figure #3.

**INITIAL SITE ASSESSMENT**

On December 22, 2023, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples in the stained battery that resulted from line failure. Five (5) soil samples were collected in this area in an effort to determine the vertical extent of soil impact. An additional Five (5) horizontal samples were taken to determine the horizontal extent of this spill. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

12-22-23 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 12/22/23		Closure Criteria ≤50 mg/kg	Closure Criteria ≤10 mg/kg				Closure Criteria 100 mg/kg	Closure Criteria 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRD	MRO	Total TPH	CHLORIDES
S-1	0-6"	652	35.6	7120	12100	1550	20770	128
S-2	0-6"	1110	91.9	9910	15000	2120	27030	32
S-3	0-6"	1230	117	8730	12400	1580	22710	32
S-4	0-6"	1360	167	13600	20200	2830	36630	16
S-5	0-6"	1060	111	17800	25700	3940	47440	96
HZ-1	0-6"	ND	ND	ND	ND	ND	ND	16
HZ-2	0-6"	ND	ND	ND	ND	ND	ND	48
HZ-3	0-6"	ND	ND	ND	ND	ND	ND	96
HZ-4	0-6"	ND	ND	ND	ND	ND	ND	16
HZ-5	0-6"	ND	ND	ND	ND	ND	ND	ND

(ND) Analyte Not Detected

Laboratory data is attached in Appendix D

A Site Map is provided in Figure #1.

## REMEDIATION ACTIVITIES

On April 14, 2024, Paragon mobilized personnel and heavy equipment to conduct remedial activities. Based on the site characteristics and field observations made during the site assessment, the following details the remedial activities we conducted to advance the Release Site toward an NMOCD-approved site closure.

- In the area of S-1, we excavated to a depth of 2 feet BGS. This area covered approximately 185 S/F. We removed app. 13 C/Y.
- In the areas of S-2 and S-4, we excavated to a depth of 5 feet BGS. These two areas covered 1150 S/F. We removed app. 213 C/Y of material here.
- In the area of S-3, we excavated to a depth of 3 feet BGS. This area covered 260 S/F. We removed app. 28 C/Y of material from this area.
- In the area of S-5, we excavated to a depth of 4 feet BGS. This area measured 490 S/F. We removed app. 72 C/Y of material from this area.

An email notification was sent to the NMOCD prior to obtaining confirmation samples. The bottom samples were representative of no more than 200 sq/ft, and the sidewall samples were obtained every 50 feet. The results of this sampling event are in the following data table.

4-29-24 Confirmation Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 4/29/24	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria 100 mg/kg	Closure Criteria 500 mg/kg
Sample ID	BTEX	Benzene	GRQ	DRO	MRO	Total TPH	CHLORIDES
S-1 2'	ND	ND	ND	ND	ND	0	16
S-2 5'	ND	ND	ND	ND	ND	0	16
S-3 5'	ND	ND	ND	ND	ND	0	16
S-4 5'	ND	ND	ND	ND	ND	0	16
S-5 5'	ND	ND	ND	ND	ND	0	288
S-6 5'	ND	ND	ND	10.3	ND	10.3	ND
S-7 5'	ND	ND	ND	ND	ND	0	ND
S-8 3'	ND	ND	ND	12.5	ND	12.5	16
S-9 4'	ND	ND	ND	ND	ND	0	256
S-10 4'	ND	ND	ND	12.9	ND	12.9	ND
ESW-1 2'	ND	ND	ND	ND	ND	0	240
NSW-1 2'	ND	ND	ND	ND	ND	0	288
SSW-1 2'	ND	ND	ND	32.1	ND	32.1	ND
SSW-2 3'	ND	ND	ND	ND	ND	0	ND
NSW-2 4'	ND	ND	ND	ND	ND	0	32
SSW-3 4'	ND	ND	ND	ND	ND	0	240
WSW-1 4'	ND	ND	ND	29.9	ND	29.9	32
ESW-2 5'	ND	ND	ND	11.5	ND	11.5	-48
ESW-3 5'	ND	ND	ND	ND	ND	0	32
NSW-3 5'	ND	ND	ND	ND	ND	0	16
NSW-4 5'	ND	ND	ND	ND	ND	0	-48
SSW-4 5'	ND	ND	ND	ND	ND	0	256
SSW-5 5'	ND	ND	ND	ND	ND	0	-48
SSW-6 5'	ND	ND	ND	ND	ND	0	16
WSW-2 5'	ND	ND	ND	ND	ND	0	16
WSW-3 5'	ND	ND	ND	ND	ND	0	224

(ND) Analyte Not Detected

These laboratory analytical results showed that the confirmation soil samples were below NMOCD Closure Criteria. The excavated soils were loaded into trucks and transported to Lea Land, an NMOCD-approved waste disposal facility. After receiving laboratory analytical results below the closure criteria, the excavated areas were backfilled with “like” material obtained from a localized sand pit. The affected area was then contoured and machine-compacted to match the surrounding grade.

### CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2333952697, be closed. Spur has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

If you have any questions or need additional information, please get in touch with Tristan Jones by phone at (575)318-6841 or email at [tristan@paragonenvironmental.net](mailto:tristan@paragonenvironmental.net).

Respectfully,



Chris Jones  
Environmental Professional  
Paragon Environmental, LLC



#### **Attachments**

##### **Figures:**

- 1- Site Map
- 2- Topographic Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Maps

##### **Appendices:**

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and FEMA Flood Map
- Appendix C – NMOCD Notification & Photographic Documentation
- Appendix D – Laboratory Reports



Figures:

- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Map

# Spur Energy Partners

Moore St TK Battery  
Eddy County, NM  
Site Map

Moore St TB 32.7919,-104.1566



HZ-4

S-5

HZ-3

S-4

HZ-2

S-3

S-1

S-3

HZ-1

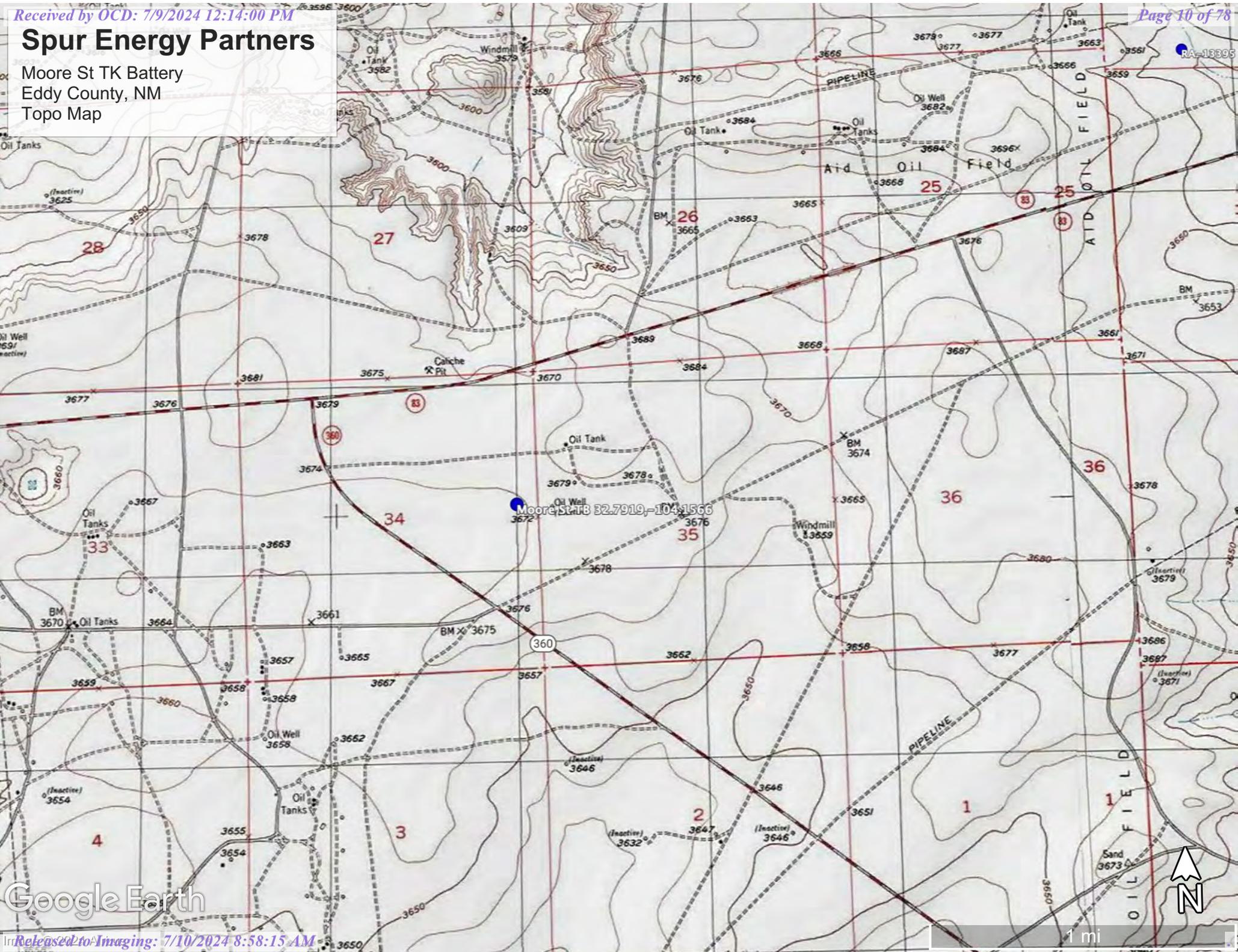
HZ-5



# Spur Energy Partners

Moore St TK Battery  
Eddy County, NM  
Topo Map

RA-18896



Google Earth

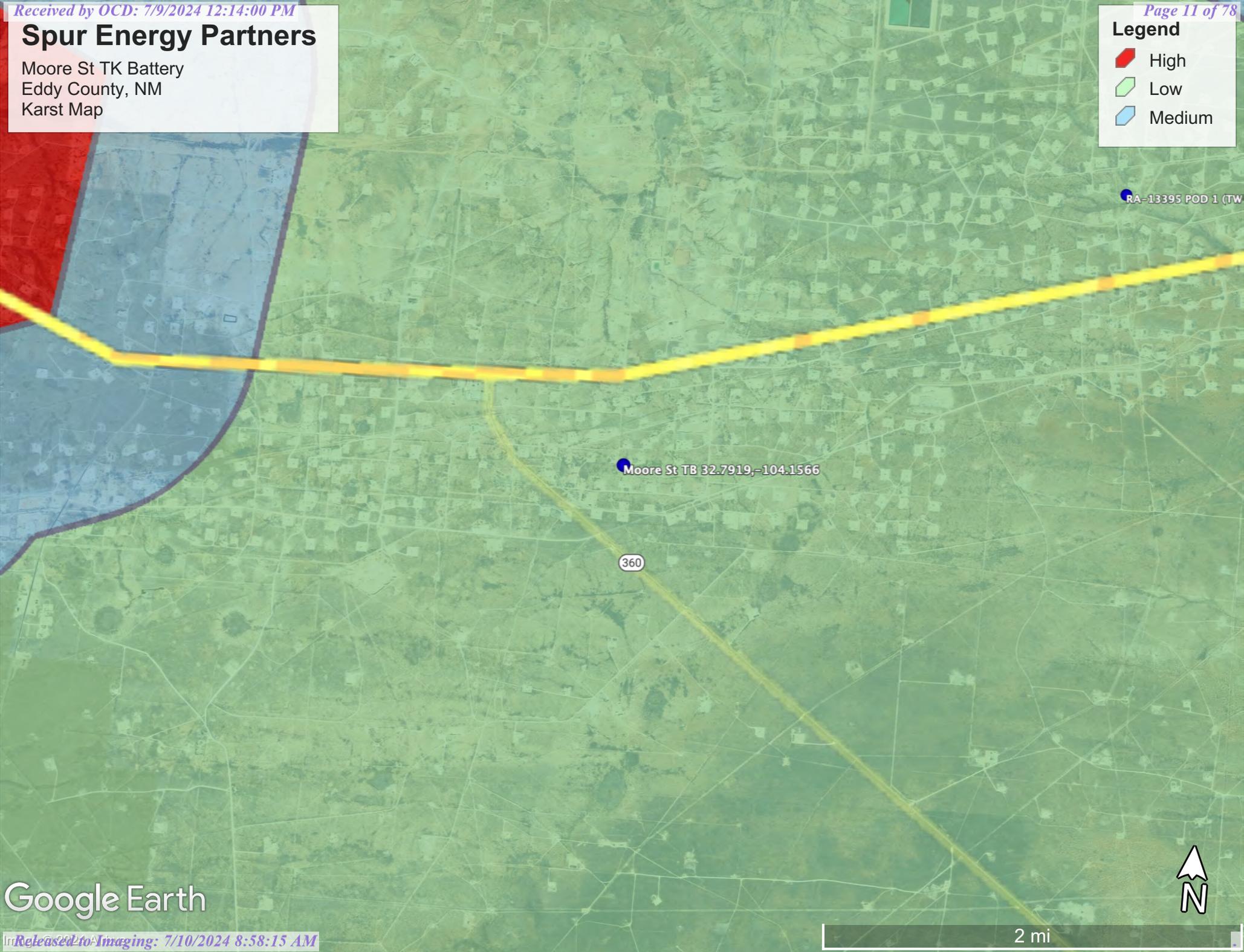
1 mi

# Spur Energy Partners

Moore St TK Battery  
Eddy County, NM  
Karst Map

## Legend

-  High
-  Low
-  Medium



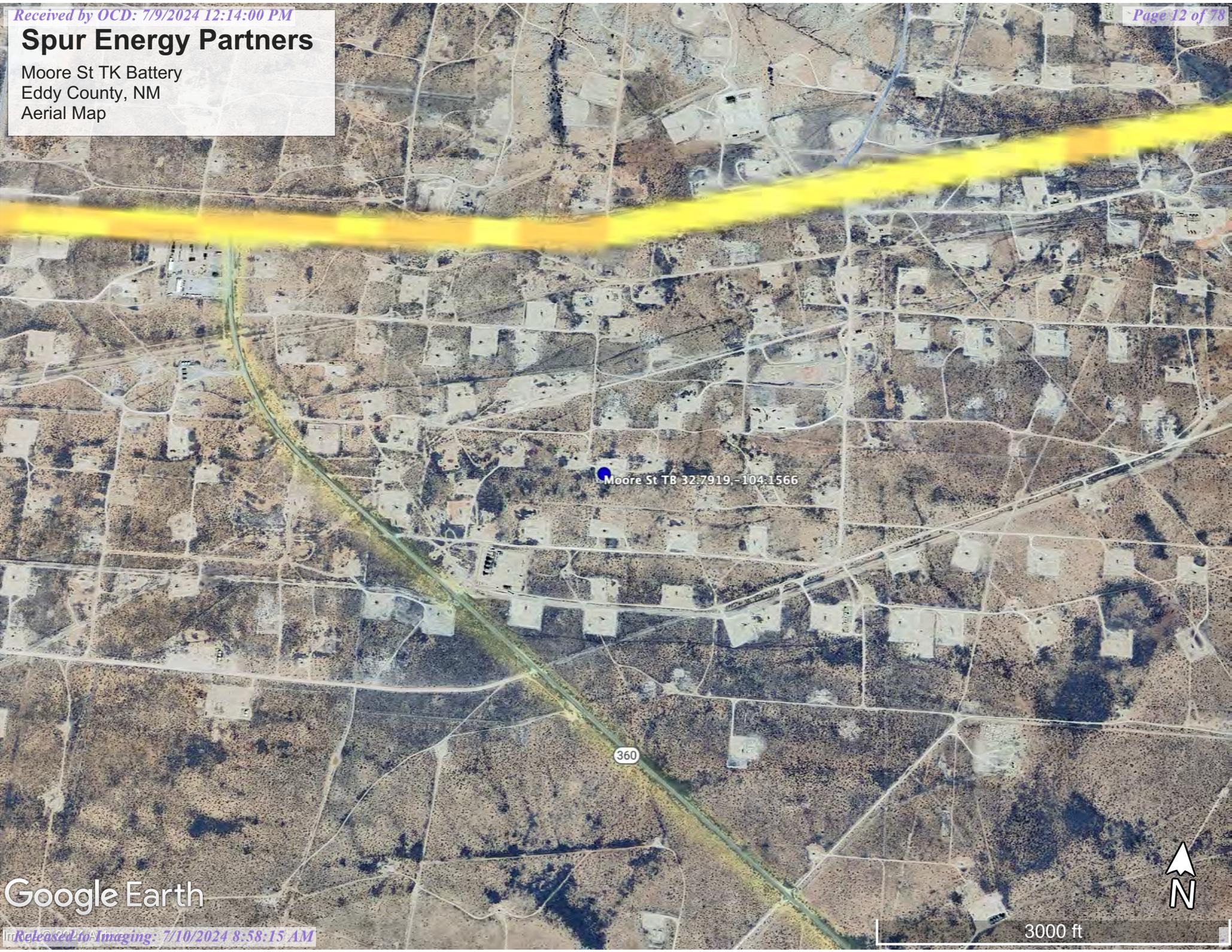
Google Earth



2 mi

# Spur Energy Partners

Moore St TK Battery  
Eddy County, NM  
Aerial Map



Google Earth



3000 ft

# Spur Energy Partners

Moore State Tank Battery  
Eddy County, NM  
Confirmation Map

## Legend

- 2' Excavation 185 S/F
- 3' Excavation 260 S/F
- 4' Excavation 490 S/F
- 5' Excavation 1150 S/F
- Samples

Moore St TB 32.7919,-104.1566





Appendix A  
Referenced Water Data:

New Mexico State of Engineers Office



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 1	Q 2	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">RA 11857 POD1</a>		RA	ED	1	1	2	05	18S	26E		577784	3625988	2839	235	95	140

Average Depth to Water: **95 feet**  
 Minimum Depth: **95 feet**  
 Maximum Depth: **95 feet**

**Record Count:** 1

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 578975.218

**Northing (Y):** 3628566

**Radius:** 3000

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.

6/5/24 1:33 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Appendix B  
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### KT—Kimbrough-Stegall loams, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w4t

*Elevation:* 2,750 to 5,000 feet

*Mean annual precipitation:* 8 to 16 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 230 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Kimbrough and similar soils:* 70 percent

*Stegall and similar soils:* 25 percent

*Minor components:* 5 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Kimbrough

##### Setting

*Landform:* Plains, alluvial fans

*Landform position (three-dimensional):* Talf, rise

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 3 inches:* loam

*H2 - 3 to 9 inches:* loam

*H3 - 9 to 60 inches:* indurated

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 8 to 20 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Very low (about 1.3 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

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*Hydrologic Soil Group:* D  
*Ecological site:* R070BC025NM - Shallow  
*Hydric soil rating:* No

### Description of Stegall

#### Setting

*Landform:* Plains, alluvial fans  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium and/or eolian sands

#### Typical profile

*H1 - 0 to 5 inches:* loam  
*H2 - 5 to 28 inches:* clay loam  
*H3 - 28 to 32 inches:* indurated  
*H4 - 32 to 60 inches:* variable

#### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 20 to 40 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 90 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Low (about 4.8 inches)

#### Interpretive groups

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

### Minor Components

#### Simona

*Percent of map unit:* 5 percent  
*Ecological site:* R070BD002NM - Shallow Sandy  
*Hydric soil rating:* No

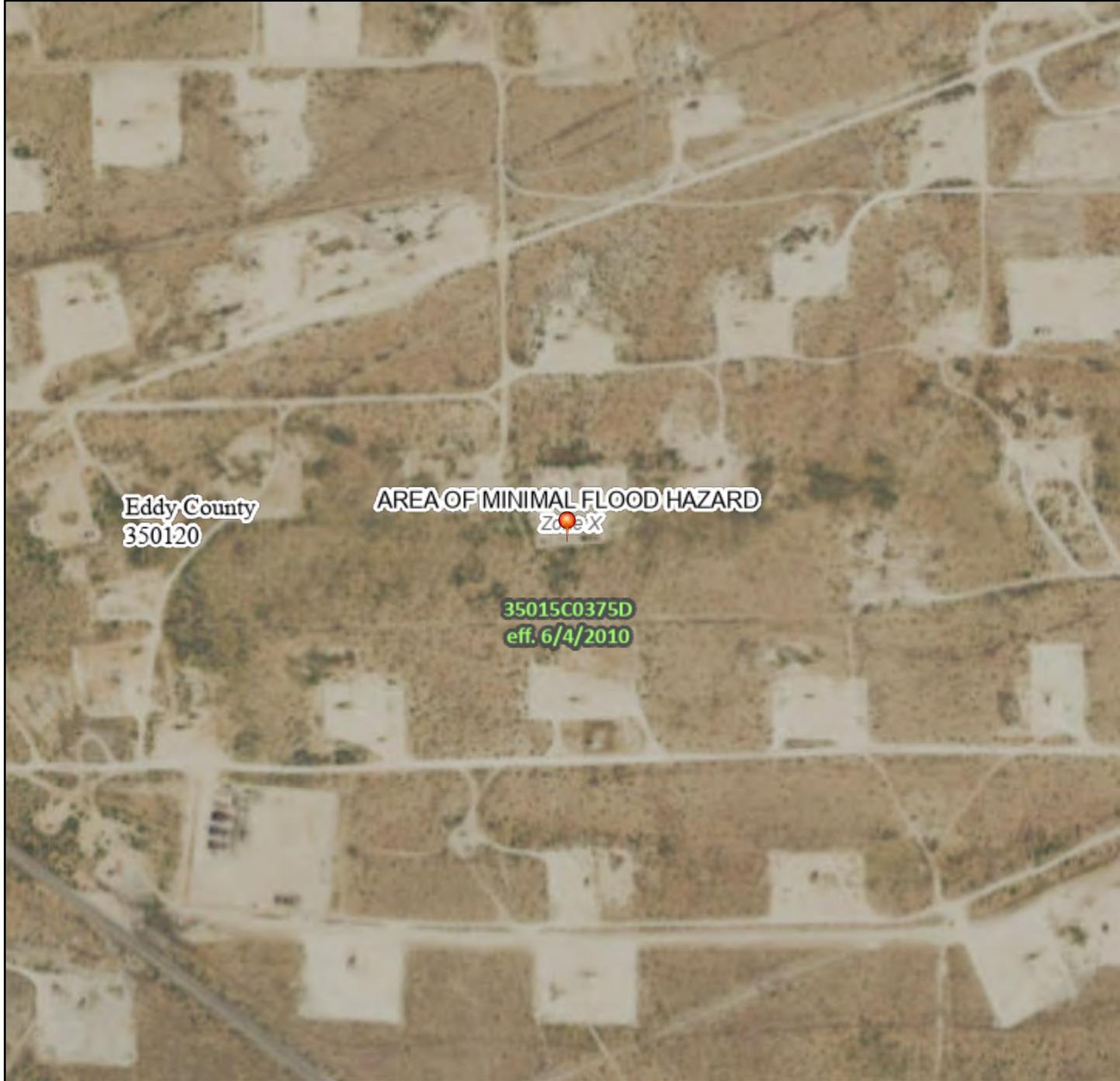
## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 19, Sep 7, 2023

# National Flood Hazard Layer FIRMMette



104°9'43"W 32°47'46"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
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

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 6/5/2024 at 3:30 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.



1:6,000

104°9'5"W 32°47'16"N



Appendix C:

NMOCD Notification

Photographic Documentation



# OCD Permitting

Home > Operator Data > Action Status > Action Search Results > Action Status Item Details

## [NOTIFY] Notification Of Sampling (C-141N) Application

### Submission Information

Submission ID:	337631	Districts:	Artesia
Operator:	<a href="#">[328947]</a> Spur Energy Partners LLC	Counties:	Eddy
Description:	Spur Energy Partners LLC [328947] , MOORE STATE TANK BATTERY , nAPP2333952697		
Status:	APPROVED		
Status Date:	04/25/2024		
References (1):	nAPP2333952697		

### Forms

This application type does not have attachments.

### Questions

#### Prerequisites

Incident ID (n#)	nAPP2333952697
Incident Name	NAPP2333952697 MOORE STATE TANK BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

#### Location of Release Source

Site Name	MOORE STATE TANK BATTERY
Date Release Discovered	12/05/2023
Surface Owner	State

#### Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	2.085
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/29/2024
Time sampling will commence	12:00 PM

**Warning: Notification can not be less than two business days prior to conducting final sampling.**

Please provide any information necessary for observers to contact samplers	Jeremy Maner 575-602-4231
Please provide any information necessary for navigation to sampling site	32.7919,-104.1566

### Acknowledgments

This submission type does not have acknowledgments, at this time.

### Comments

No comments found for this submission.

### Conditions

**Summary:** *apena (4/25/2024)*, 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.

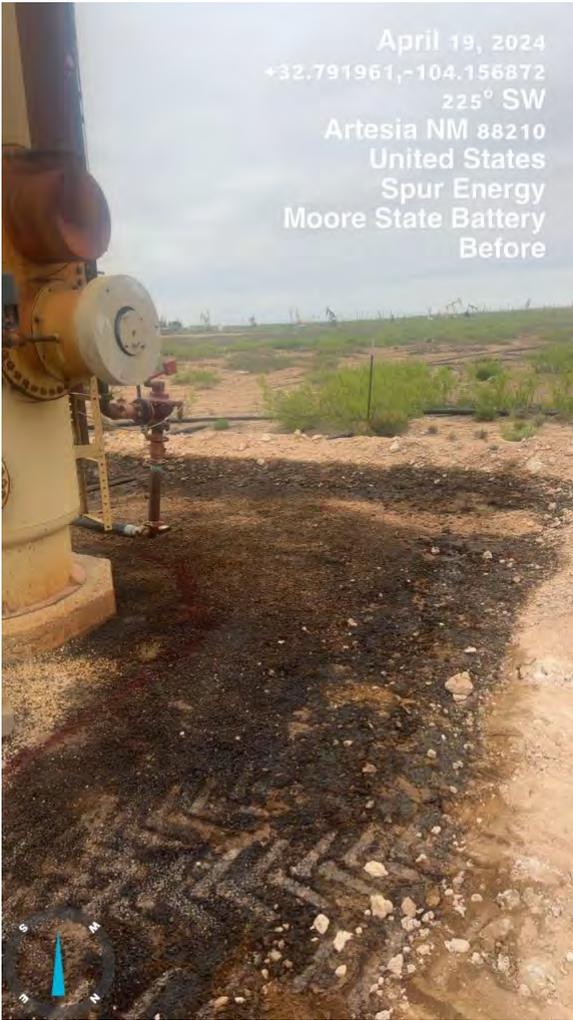
### Reasons

No reasons found for this submission.

[Go Back](#)

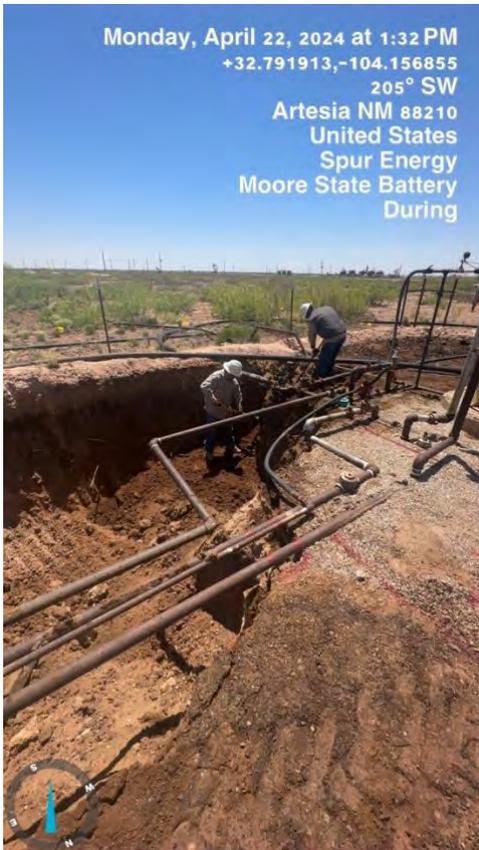


**Photographic Documentation  
Before**

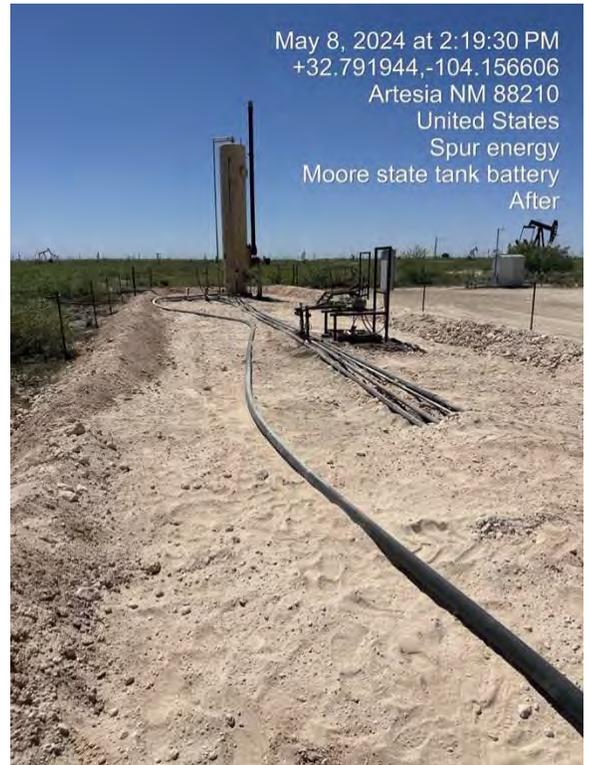
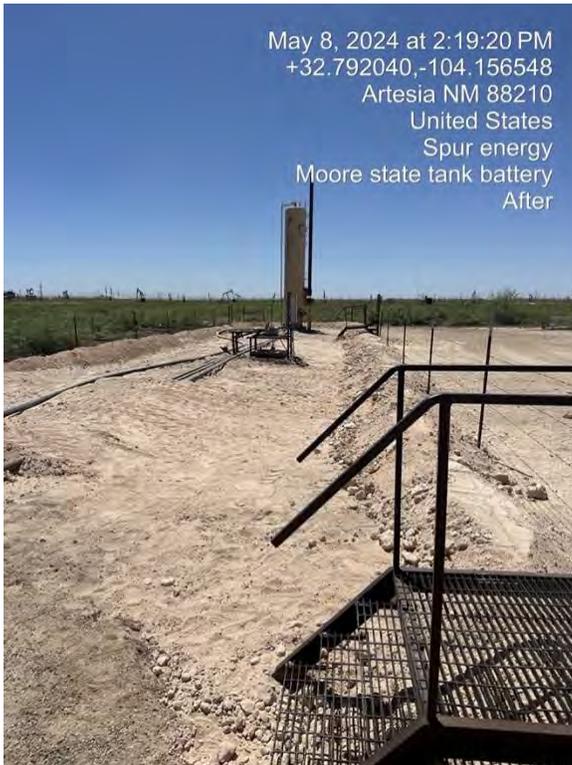




**During**



Completed





Appendix D:  
Laboratory Results



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

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December 29, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: MOORE STATE TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/22/23 12:20.

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.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/22/2023	Sampling Date:	12/22/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	SPUR - EDDY		

**Sample ID: S - 1 0-6" (H236825-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>35.6</b>	10.0	12/27/2023	ND	2.41	120	2.00	6.68	QM-07, QR-03
<b>Toluene*</b>	<b>234</b>	10.0	12/27/2023	ND	2.35	118	2.00	9.94	QM-07, QR-03
<b>Ethylbenzene*</b>	<b>162</b>	10.0	12/27/2023	ND	2.41	121	2.00	10.0	QM-07, QR-03
<b>Total Xylenes*</b>	<b>221</b>	30.0	12/27/2023	ND	7.21	120	6.00	10.3	QM-07, QR-03
<b>Total BTEX</b>	<b>652</b>	60.0	12/27/2023	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
<b>Chloride</b>	<b>128</b>	16.0	12/28/2023	ND	416	104	400	8.00	

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>7120</b>	100	12/27/2023	ND	232	116	200	8.49		
<b>DRO &gt;C10-C28*</b>	<b>12100</b>	100	12/27/2023	ND	226	113	200	6.61		
<b>EXT DRO &gt;C28-C36</b>	<b>1550</b>	100	12/27/2023	ND						

Surrogate: 1-Chlorooctane 188 % 48.2-134

Surrogate: 1-Chlorooctadecane 242 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/22/2023	Sampling Date:	12/22/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	SPUR - EDDY		

**Sample ID: S - 2 0-6" (H236825-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>91.9</b>	10.0	12/27/2023	ND	2.41	120	2.00	6.68	
<b>Toluene*</b>	<b>411</b>	10.0	12/27/2023	ND	2.35	118	2.00	9.94	
<b>Ethylbenzene*</b>	<b>285</b>	10.0	12/27/2023	ND	2.41	121	2.00	10.0	
<b>Total Xylenes*</b>	<b>323</b>	30.0	12/27/2023	ND	7.21	120	6.00	10.3	
<b>Total BTEX</b>	<b>1110</b>	60.0	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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>32.0</b>	16.0	12/28/2023	ND	416	104	400	8.00	

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>9910</b>	100	12/27/2023	ND	232	116	200	8.49		
<b>DRO &gt;C10-C28*</b>	<b>15000</b>	100	12/27/2023	ND	226	113	200	6.61		
<b>EXT DRO &gt;C28-C36</b>	<b>2120</b>	100	12/27/2023	ND						

Surrogate: 1-Chlorooctane 367 % 48.2-134

Surrogate: 1-Chlorooctadecane 291 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/22/2023	Sampling Date:	12/22/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	SPUR - EDDY		

**Sample ID: S - 3 0-6" (H236825-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>117</b>	10.0	12/27/2023	ND	2.41	120	2.00	6.68	
<b>Toluene*</b>	<b>457</b>	10.0	12/27/2023	ND	2.35	118	2.00	9.94	
<b>Ethylbenzene*</b>	<b>308</b>	10.0	12/27/2023	ND	2.41	121	2.00	10.0	
<b>Total Xylenes*</b>	<b>344</b>	30.0	12/27/2023	ND	7.21	120	6.00	10.3	
<b>Total BTEX</b>	<b>1230</b>	60.0	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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
<b>Chloride</b>	<b>32.0</b>	16.0	12/28/2023	ND	416	104	400	8.00	

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>8730</b>	100	12/27/2023	ND	232	116	200	8.49		
<b>DRO &gt;C10-C28*</b>	<b>12400</b>	100	12/27/2023	ND	226	113	200	6.61		
<b>EXT DRO &gt;C28-C36</b>	<b>1580</b>	100	12/27/2023	ND						

Surrogate: 1-Chlorooctane 318 % 48.2-134

Surrogate: 1-Chlorooctadecane 246 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/22/2023	Sampling Date:	12/22/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	SPUR - EDDY		

**Sample ID: S - 4 0-6" (H236825-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>167</b>	10.0	12/27/2023	ND	2.41	120	2.00	6.68	
<b>Toluene*</b>	<b>512</b>	10.0	12/27/2023	ND	2.35	118	2.00	9.94	
<b>Ethylbenzene*</b>	<b>317</b>	10.0	12/27/2023	ND	2.41	121	2.00	10.0	
<b>Total Xylenes*</b>	<b>367</b>	30.0	12/27/2023	ND	7.21	120	6.00	10.3	
<b>Total BTEX</b>	<b>1360</b>	60.0	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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>16.0</b>	16.0	12/28/2023	ND	416	104	400	8.00	

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>13600</b>	100	12/27/2023	ND	232	116	200	8.49		
<b>DRO &gt;C10-C28*</b>	<b>20200</b>	100	12/27/2023	ND	226	113	200	6.61		
<b>EXT DRO &gt;C28-C36</b>	<b>2830</b>	100	12/27/2023	ND						

Surrogate: 1-Chlorooctane 573 % 48.2-134

Surrogate: 1-Chlorooctadecane 389 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/22/2023	Sampling Date:	12/22/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	SPUR - EDDY		

**Sample ID: S - 5 0-6" (H236825-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>111</b>	10.0	12/27/2023	ND	2.41	120	2.00	6.68	
<b>Toluene*</b>	<b>391</b>	10.0	12/27/2023	ND	2.35	118	2.00	9.94	
<b>Ethylbenzene*</b>	<b>259</b>	10.0	12/27/2023	ND	2.41	121	2.00	10.0	
<b>Total Xylenes*</b>	<b>294</b>	30.0	12/27/2023	ND	7.21	120	6.00	10.3	
<b>Total BTEX</b>	<b>1060</b>	60.0	12/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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
<b>Chloride</b>	<b>96.0</b>	16.0	12/28/2023	ND	416	104	400	8.00	

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>17800</b>	100	12/27/2023	ND	232	116	200	8.49		
<b>DRO &gt;C10-C28*</b>	<b>25700</b>	100	12/27/2023	ND	226	113	200	6.61		
<b>EXT DRO &gt;C28-C36</b>	<b>3940</b>	100	12/27/2023	ND						

Surrogate: 1-Chlorooctane 748 % 48.2-134

Surrogate: 1-Chlorooctadecane 473 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/22/2023	Sampling Date:	12/22/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	SPUR - EDDY		

**Sample ID: HZ - 1 SURFACE (H236825-06)**

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	12/27/2023	ND	2.41	120	2.00	6.68		
Toluene*	<0.050	0.050	12/27/2023	ND	2.35	118	2.00	9.94		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.41	121	2.00	10.0		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.21	120	6.00	10.3		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	16.0	16.0	12/28/2023	ND	416	104	400	8.00		

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	12/29/2023	ND	232	116	200	8.49		
DRO >C10-C28*	<10.0	10.0	12/29/2023	ND	226	113	200	6.61		
EXT DRO >C28-C36	<10.0	10.0	12/29/2023	ND						

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/22/2023	Sampling Date:	12/22/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	SPUR - EDDY		

**Sample ID: HZ - 2 SURFACE (H236825-07)**

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	12/27/2023	ND	2.41	120	2.00	6.68		
Toluene*	<0.050	0.050	12/27/2023	ND	2.35	118	2.00	9.94		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.41	121	2.00	10.0		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.21	120	6.00	10.3		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	48.0	16.0	12/28/2023	ND	416	104	400	8.00		

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	12/27/2023	ND	232	116	200	8.49		
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	226	113	200	6.61		
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND						

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/22/2023	Sampling Date:	12/22/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	SPUR - EDDY		

**Sample ID: HZ - 3 SURFACE (H236825-08)**

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	12/27/2023	ND	2.41	120	2.00	6.68		
Toluene*	<0.050	0.050	12/27/2023	ND	2.35	118	2.00	9.94		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.41	121	2.00	10.0		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.21	120	6.00	10.3		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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>96.0</b>	16.0	12/28/2023	ND	416	104	400	8.00		

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	12/27/2023	ND	232	116	200	8.49		
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	226	113	200	6.61		
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND						

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.1 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/22/2023	Sampling Date:	12/22/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	SPUR - EDDY		

**Sample ID: HZ - 4 SURFACE (H236825-09)**

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	12/27/2023	ND	2.41	120	2.00	6.68		
Toluene*	<0.050	0.050	12/27/2023	ND	2.35	118	2.00	9.94		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.41	121	2.00	10.0		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.21	120	6.00	10.3		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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>16.0</b>	16.0	12/28/2023	ND	416	104	400	8.00		

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	12/27/2023	ND	232	116	200	8.49		
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	226	113	200	6.61		
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND						

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.4 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/22/2023	Sampling Date:	12/22/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	SPUR - EDDY		

**Sample ID: HZ - 5 SURFACE (H236825-10)**

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	12/27/2023	ND	2.41	120	2.00	6.68		
Toluene*	<0.050	0.050	12/27/2023	ND	2.35	118	2.00	9.94		
Ethylbenzene*	<0.050	0.050	12/27/2023	ND	2.41	121	2.00	10.0		
Total Xylenes*	<0.150	0.150	12/27/2023	ND	7.21	120	6.00	10.3		
Total BTEX	<0.300	0.300	12/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-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	12/28/2023	ND	384	96.0	400	8.00		

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	12/27/2023	ND	232	116	200	8.49		
DRO >C10-C28*	<10.0	10.0	12/27/2023	ND	226	113	200	6.61		
EXT DRO >C28-C36	<10.0	10.0	12/27/2023	ND						

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.3 % 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.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

<b>Company Name:</b> Paragon Environmental <b>Project Manager:</b> Chris Jones <b>Address:</b> 1601 N. Turner St., Ste 500 <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> 575-964-7814 <b>Fax #:</b> <b>Project #:</b> <b>Project Name:</b> Moore State Tank Battery <b>Project Location:</b> Folly <b>Sampler Name:</b> Jeremy Whelan <small>FOR LAB USE ONLY</small>		<b>P.O. #:</b> <b>Company:</b> Spiv <b>Attn:</b> Bradley Walker <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>Lab I.D.</b> H230825		<b>Sample I.D.</b> S-1 0.6" S-2 0.6" S-3 0.6" S-4 0.6" S-5 0.6" H2-1 SURFACE H2-2 SURFACE H2-3 SURFACE H2-4 SURFACE H2-5 SURFACE	
(G)RAB OR (C)OMP. <input checked="" type="checkbox"/> G # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		DATE 12/22 TIME TPH EXT. BTEX Chlorides	
<b>Relinquished By:</b> [Signature] Date: 12/22 Time: 12:30 <b>Received By:</b> [Signature] Date: 12/22 Time:		<b>ANALYSIS REQUEST</b>	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: -0.7 #140		<b>CHECKED BY:</b> [Signature] (Initials) REMARKS: Email results to Chris Jones.	

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

---

May 03, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: MOORE STATE TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/29/24 14:28.

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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 1 2' (H242271-01)**

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	05/01/2024	ND	2.13	107	2.00	6.48	
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98	
Total BTEX	<0.300	0.300	05/01/2024	ND					

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

Chloride, SM4500Cl-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	05/02/2024	ND	416	104	400	10.9	

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	04/30/2024	ND	210	105	200	1.39	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	223	111	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 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:**

PARAGON ENVIROMENTAL  
 CHRIS JONES  
 1601 N TURNER ST., STE 500  
 HOBBS NM, 88240  
 Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 2 5' (H242271-02)**

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	05/01/2024	ND	2.13	107	2.00	6.48	
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	05/02/2024	ND	416	104	400	10.9	

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	04/30/2024	ND	210	105	200	1.39	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	223	111	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 3 5' (H242271-03)**

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	05/01/2024	ND	2.13	107	2.00	6.48		
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98		
Total BTEX	<0.300	0.300	05/01/2024	ND						

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

Chloride, SM4500Cl-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	05/02/2024	ND	416	104	400	10.9		

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	04/30/2024	ND	210	105	200	1.39		
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	223	111	200	2.35		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 4 5' (H242271-04)**

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	05/01/2024	ND	2.13	107	2.00	6.48	
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-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	05/02/2024	ND	416	104	400	10.9	

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	04/30/2024	ND	210	105	200	1.39	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	223	111	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 5 5' (H242271-05)**

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	05/01/2024	ND	2.13	107	2.00	6.48		
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/02/2024	ND	416	104	400	10.9		

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	04/30/2024	ND	210	105	200	1.39		
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	223	111	200	2.35		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 6 5' (H242271-06)**

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	05/01/2024	ND	2.13	107	2.00	6.48	
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-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	05/02/2024	ND	416	104	400	10.9	

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	04/30/2024	ND	210	105	200	1.39	
<b>DRO &gt;C10-C28*</b>	<b>10.3</b>	10.0	04/30/2024	ND	223	111	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 7 5' (H242271-07)**

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	05/01/2024	ND	2.13	107	2.00	6.48		
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-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	05/02/2024	ND	416	104	400	10.9		

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	04/30/2024	ND	210	105	200	1.39		
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	223	111	200	2.35		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 8 3' (H242271-08)**

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	05/01/2024	ND	2.13	107	2.00	6.48	
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	05/02/2024	ND	416	104	400	10.9	

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	04/30/2024	ND	190	94.8	200	2.09	
<b>DRO &gt;C10-C28*</b>	<b>12.5</b>	10.0	04/30/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 9 4' (H242271-09)**

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	05/01/2024	ND	2.13	107	2.00	6.48	
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/02/2024	ND	416	104	400	10.9	

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	04/30/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 10 4' (H242271-10)**

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	05/01/2024	ND	2.13	107	2.00	6.48		
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98		
Total BTEX	<0.300	0.300	05/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09		
<b>DRO &gt;C10-C28*</b>	<b>12.9</b>	10.0	04/30/2024	ND	198	99.0	200	1.84		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: NSW - 1 2' (H242271-11)**

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	05/01/2024	ND	2.13	107	2.00	6.48	
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: NSW - 2 4' (H242271-12)**

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	05/01/2024	ND	2.13	107	2.00	6.48	
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: NSW - 3 5' (H242271-13)**

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	05/01/2024	ND	2.13	107	2.00	6.48		
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98		
Total BTEX	<0.300	0.300	05/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09		
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: NSW - 4 5' (H242271-14)**

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	05/01/2024	ND	2.13	107	2.00	6.48		
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98		
Total BTEX	<0.300	0.300	05/01/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09		
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: ESW - 1 2' (H242271-15)**

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	05/01/2024	ND	2.13	107	2.00	6.48		
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09		
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: ESW - 2 5' (H242271-16)**

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	05/01/2024	ND	2.13	107	2.00	6.48	
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09	
<b>DRO &gt;C10-C28*</b>	<b>11.5</b>	10.0	04/30/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: ESW - 3 5' (H242271-17)**

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	05/01/2024	ND	2.13	107	2.00	6.48	
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: SSW 1 - 2' (H242271-18)**

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	05/01/2024	ND	2.13	107	2.00	6.48		
Toluene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.04		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.17	109	2.00	6.21		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.60	110	6.00	4.98		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09		
<b>DRO &gt;C10-C28*</b>	<b>32.1</b>	10.0	04/30/2024	ND	198	99.0	200	1.84		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: SSW 2 - 3' (H242271-19)**

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09		
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: SSW - 3 4' (H242271-20)**

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: SSW - 4 5' (H242271-21)**

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09		
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: SSW - 5 5' (H242271-22)**

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: SSW - 6 5' (H242271-23)**

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09		
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	198	99.0	200	1.84		
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: WSW - 1 4' (H242271-24)**

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/01/2024	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	04/30/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	29.9	10.0	04/30/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: WSW - 2 5' (H242271-25)**

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/01/2024	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	05/01/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	04/29/2024	Sampling Date:	04/29/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	MOORE STATE TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: WSW - 3 5' (H242271-26)**

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/01/2024	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	05/01/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Notes and Definitions

- 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental  
 Project Manager: Chris Jones  
 Address: 1601 N. Turner St., Ste 500  
 City: Hobbs State: NM zip: 88240  
 Phone #: 575-964-7814 Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: Spur  
 Project Name: Waste State Battery  
 Project Location: Eddy  
 Sampler Name: Beverly Maxwell  
 P.O. #: \_\_\_\_\_ Company: Spur  
 Attn: Bradley Wolder  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H242271	S-1 Z'	C									04/24		TPH Ext. BTEX Chlorides	
	S-2 S'													
	S-3 S'													
	S-4 S'													
	S-5 S'													
	S-6 S'													
	S-7 S'													
	S-8 S'													
	S-9 S'													
	S-10 S'													

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Relinquished By: *Chris Jones* Date: 04/24 Time: \_\_\_\_\_  
 Received By: *APowers* Date: 04-29-24 Time: 1428

Delivered By: (Circle One) *UPS* *20'c*  
 Sampler - UPS - Bus - Other: *140*  
 Sample Condition: Cool  Intact   
 Checked By: *AP*  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: *Email results to Chris Jones*

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental  
 Project Manager: Chris Jones

Address: 1601 N. Turner St, Ste 500

City: Hobbs State: NM zip: 88240

Phone #: 575-964-7814 Fax #:

Project #: Project Owner: Spar

Project Name: Moore State Battery

Project Location: Eddy

Sampler Name: Sewerly Manna

FOR LAB USE ONLY

**BILL TO**  
 P.O. #:

Company: Spar

Attn: Bradley Wolden

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH Ext.	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H247271	NSW.1	2	1						04/24					
11	NSW.2	4	1											
12	NSW.3	5	1											
13	NSW.4	5	1											
14	ESW.1	2	1											
15	ESW.2	5	1											
16	ESW.3	5	1											
17	SSW.1	2	1											
18	SSW.2	3	1											
19	SSW.3	4	1											

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Relinquished By: [Signature]  
 Date: 04/24  
 Time: 1428

Received By: [Signature]  
 Date: 04/24  
 Time: 1428

Sample Condition  
 Cool  Intact   
 Yes  No

Phone Result:  Yes  No  Add'l Phone #:  
 Fax Result:  Yes  No  Add'l Fax #:  
 REMARKS: Email results to Chris Jones

Delivered By: (Circle One) 2.0°C  
 Sampler - UPS - Bus - Other: #140

Checked By: [Signature]  
 (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental  
 Project Manager: Chris Jones

Address: 1601 N. Turner St, Ste 500  
 City: Hobbs State: NM zip: 88240

Phone #: 575-964-7814 Fax #: Project Owner: Spur

Project #: Project Name: Mayor State Batters

Project Location: Eddy

Sampler Name: Severeley Waters

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H2422-71

21 55w. 4. 5. (G)RAB OR (C)OMP. C

22 55w. 5 5. # CONTAINERS

23 55w. 6 5. GROUNDWATER

24 55w. 1 4. WASTEWATER

25 55w. 7 5. SOIL

26 55w. 3 5. OIL

DATE TIME

04/24 1428

Relinquished By: R. Williams

Relinquished By: Date: 04/24 Time: 1428

Delivered By: (Circle One) 2006 #140

BILL TO

P.O. #: Company: Spur

Address: Attn: Bradley Weider

City: State: Zip:

Phone #: Fax #:

PRESERV/ SAMPLING

ACID/BASE: 1

ICE / COOL

OTHER :

DATE TIME

04/24

TPH Ext.

BTEX

Chlorides

ANALYSIS REQUEST

REMARKS:

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

Sample Condition Cool Intact Yes No

CHECKED BY: (Initials) PJP

REMARKS: Email results to Chris Jones.

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 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**

QUESTIONS

Action 362240

**QUESTIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 362240
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2333952697
Incident Name	NAPP2333952697 MOORE STATE TANK BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	MOORE STATE TANK BATTERY
Date Release Discovered	12/05/2023
Surface Owner	State

**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	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 30 BBL   Recovered: 28 BBL   Lost: 2 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)	CIRCULATING LINE DEVELOPED A PINHOLE FROM CORROSION RELEASING PRODUCED WATER INTO UNLINED CONTAINMENT

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**District II**  
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 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**

QUESTIONS, Page 2

Action 362240

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 362240
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<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	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	N/A

*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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 07/09/2024
--	--

**District I**  
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Phone:(575) 393-6161 Fax:(575) 393-0720

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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 (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 362240
	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	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 1 and 5 (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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (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	Between 1/2 and 1 (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
<i>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.</i>	
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)	288
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	47440
GRO+DRO (EPA SW-846 Method 8015M)	43500
BTEX (EPA SW-846 Method 8021B or 8260B)	1360
Benzene (EPA SW-846 Method 8021B or 8260B)	167

*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	04/14/2024
On what date will (or did) the final sampling or liner inspection occur	04/29/2024
On what date will (or was) the remediation complete(d)	04/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	2085
What is the estimated volume (in cubic yards) that will be reclaimed	326
What is the estimated surface area (in square feet) that will be remediated	2085
What is the estimated volume (in cubic yards) that will be remediated	326

*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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QUESTIONS, Page 4

Action 362240

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 362240
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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	LEA LAND LANDFILL [fEEM0112342028]
<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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 07/09/2024
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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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QUESTIONS, Page 5

Action 362240

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 362240
	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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QUESTIONS, Page 6

Action 362240

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 362240
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>337631</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>04/29/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>27</b>
What was the sampling surface area in square feet	<b>2085</b>

**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	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
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	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>2085</b>
What was the total volume (cubic yards) remediated	<b>326</b>
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	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>2085</b>
What was the total volume (in cubic yards) reclaimed	<b>326</b>
Summarize any additional remediation activities not included by answers (above)	<b>N/A</b>

*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.

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 07/09/2024
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Action 362240

**QUESTIONS (continued)**

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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CONDITIONS  
 Action 362240

**CONDITIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 362240
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2333952697 MOORE STATE TANK BATTERY, thank you. This Remediation Closure Report is approved.	7/10/2024