

<b>Spill Volume(Bbls) Calculator</b>		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
90.000	31.000	12.000
Cubic Feet Impacted		2790.000
Barrels		496.88
Soil Type		Clay
Bbls Assuming 100% Saturation		49.69
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		49.70000

<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)	90
Width (ft)	31
Depth (in)	12.000









April 15<sup>th</sup>, 2025

NMOCD District 2  
Mike Bratcher  
Artesia, NM 88210

Bureau of Land Management  
Crisha Morgan  
Carlsbad Field Office

**Re: Site Assessment, Remediation, and Closure Request**  
**Oklahoma 32 Fee #5**  
**API No. 30-015-39081**  
**GPS: Latitude 32.7071495 Longitude -104.4011459**  
**UL "G", Sec. 32, T18S, R26E**  
**Eddy County, NM**  
**NMOCD Ref. No. NAB1819157134**

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 Oklahoma 32 Fee #5 (Oklahoma). Details of the release are summarized below:

Release Details			
<b>Type of Release:</b>	Produced Water / Crude Oil	<b>Volume of Release:</b>	50 bbls
		<b>Volume Recovered:</b>	36 bbls
<b>Source of Release:</b>	Flow Line	<b>Date of Release:</b>	6/30/18
<b>Was Immediate Notice Given?</b>	Yes	<b>If, Yes, to Whom?</b>	Mike Bratcher, NMOCD
<b>Was a Watercourse Reached?</b>	No	<b>If Yes, Volume Impacting Watercourse:</b>	N/A
<b>Surface Owner:</b>	Private	<b>Mineral Owner:</b>	Private
A buried steel flowline developed a leak due to internal corrosion.			

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 USGS
- 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- 1-5 mile
- Any lakebed, sinkhole, or playa lake- 1-5 mi
- An occupied permanent residence, school, hospital, institution, or church- 1-5 mi
- A spring or a private domestic fresh water well used by less than 5 households for domestic or stock watering purposes- 1-5 mi
- Any other fresh water well or spring- 1-5 mi
- Incorporated municipal boundaries or a defined municipal fresh water 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- 1-5 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 Piedmont alluvial deposits (Holocene to lower Pleistocene)—Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits (QP). The soil in this area is made up Reagan Loam, with 0 to 1 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are excessively 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 August 19, 2022, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples across the entirety of the pad in an effort to see what area had been affected by the spill, as it was not visible anymore. Sixteen (16) soil samples were collected in this area to determine the vertical extent of soil impact. 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:

8-19-22 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 8-19-22		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria ≤ 1,000 mg/kg			Closure Criteria ≤ 2,500 mg/kg	Closure Criteria ≤ 20,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	0-6"	ND	ND	ND	ND	ND	ND	32
	6"-1'	ND	ND	ND	ND	ND	ND	48
S-2	0-6"	ND	ND	ND	ND	ND	ND	80
	1'	ND	ND	ND	ND	ND	ND	48
S-3	0-6"	ND	ND	ND	ND	ND	ND	48
	1'	ND	ND	ND	ND	ND	ND	48
	2'	ND	ND	ND	ND	ND	ND	48
	3'	ND	ND	ND	ND	ND	ND	96
S-4	0-6"	ND	ND	ND	ND	ND	ND	64
	1'	ND	ND	ND	ND	ND	ND	48
	2'	ND	ND	ND	ND	ND	ND	64
S-5	0-6"	ND	ND	ND	ND	ND	ND	64
	1'	ND	ND	ND	ND	ND	ND	32
S-6	0-6"	ND	ND	ND	64.4	23.5	87.9	1150
S-7	0-6"	ND	ND	ND	ND	ND	ND	64
S-8	0-6"	ND	ND	ND	ND	ND	ND	48
S-9	0-6"	ND	ND	ND	ND	ND	ND	48
S-10	0-6"	ND	ND	ND	ND	ND	ND	32
	1'	ND	ND	ND	ND	ND	ND	32
S-11	0-6"	ND	ND	ND	ND	ND	ND	1150
	1'	ND	ND	ND	ND	ND	ND	864
S-12	0-6"	ND	ND	ND	ND	ND	ND	320
	1'	ND	ND	ND	ND	ND	ND	128
S-13	0-6"	ND	ND	ND	ND	ND	ND	32
S-14	0-6"	ND	ND	ND	ND	ND	ND	32
S-15	0-6"	ND	ND	ND	ND	ND	ND	48
S-16	0-6"	ND	ND	ND	ND	ND	ND	48

(ND) Analyte Not Detected

Laboratory data is attached in Appendix D

A Site Map is provided in Figure #1.

## REMEDATION ACTIVITIES

This report was previously rejected due to the fact that the OSE water data is more than 25 years old. Therefore, we decided to excavate to comply with the most stringent criteria. The area was approximately 400 S/F.

On September 4, 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.

Our remediation began by excavating in the areas of S-6 and S-11 down to 1 ft BGS. The spill area was approximately 400 S/F. 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.

9-6-24 Confirmation Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 9-6-24		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	DRO	MRO	Total TPH	CHLORIDES
B - 1	1'	ND	ND	ND	ND	ND	0	80
B - 2	1'	ND	ND	ND	ND	ND	0	64
ESW	1'	ND	ND	ND	ND	ND	0	64
NSW	1'	ND	ND	ND	ND	ND	0	80
SSW	1'	ND	ND	ND	ND	ND	0	64
WSW	1'	ND	ND	ND	ND	ND	0	64

(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. The affected area was then contoured and machine-compacted to match the surrounding grade.

These samples were collected a day later than the notification was sent. So, to satisfy NMOCD requirements, we submitted another email notification 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 two bottom samples were labeled S-1 and S-2 by the Tech that were previously labeled B-1 and B-2, they were taken from the same areas. The results of this sampling event are in the following data table.



## 2-28-25 Confirmation Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 2-28-25		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	DRO	MRO	Total TPH	48
ESW - 1 1'	1'	ND	ND	ND	ND	ND	ND	32
NSW - 1 1'	1'	ND	ND	ND	ND	ND	ND	32
SSW - 1 1'	1'	ND	ND	ND	ND	ND	ND	48
WSW - 1 1'	1'	ND	ND	ND	ND	ND	ND	64
S - 1 1'	1'	ND	ND	ND	ND	ND	ND	48
S - 2 1'	1'	ND	ND	ND	ND	ND	ND	32

(ND) Analyte Not Detected

These laboratory analytical results showed that the confirmation soil samples were below NMOCD Closure Criteria.

### CLOSURE REQUEST

After careful review, Paragon requests that the incident, NAB1819157134, 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,



Tristan Jones  
Project Manager  
Paragon Environmental, LLC



Chris Jones  
Environmental Professional  
Paragon Environmental, LLC



### Attachments

#### **Figures:**

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

#### **Appendices:**

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



Figures:

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



# Spur Energy Partners

Oklahoma 32 Fee #5  
API# 30-015-39081  
Eddy Coutny, NM  
Site Map

## Legend

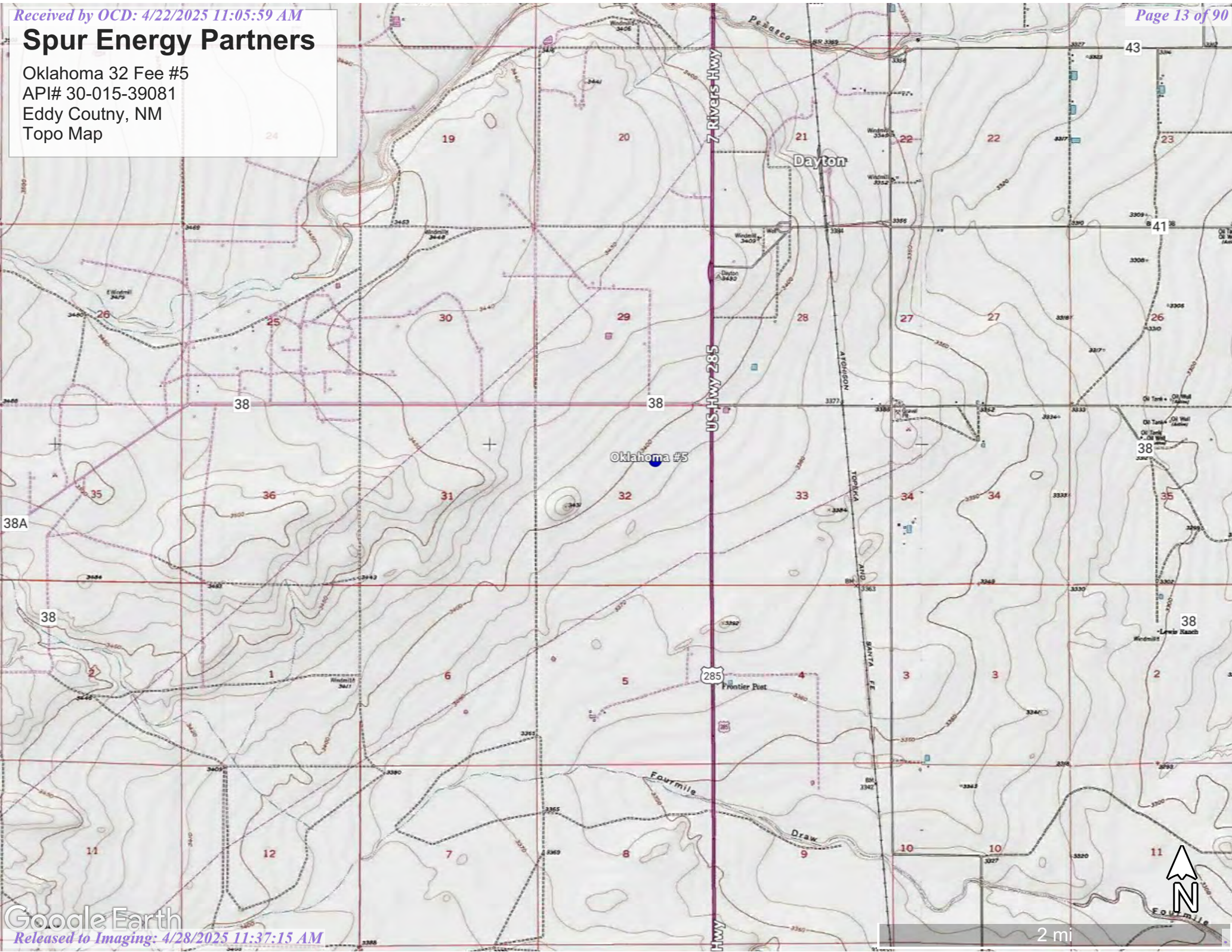
- Feature 1
- Flowline





# Spur Energy Partners

Oklahoma 32 Fee #5  
API# 30-015-39081  
Eddy Coutny, NM  
Topo Map

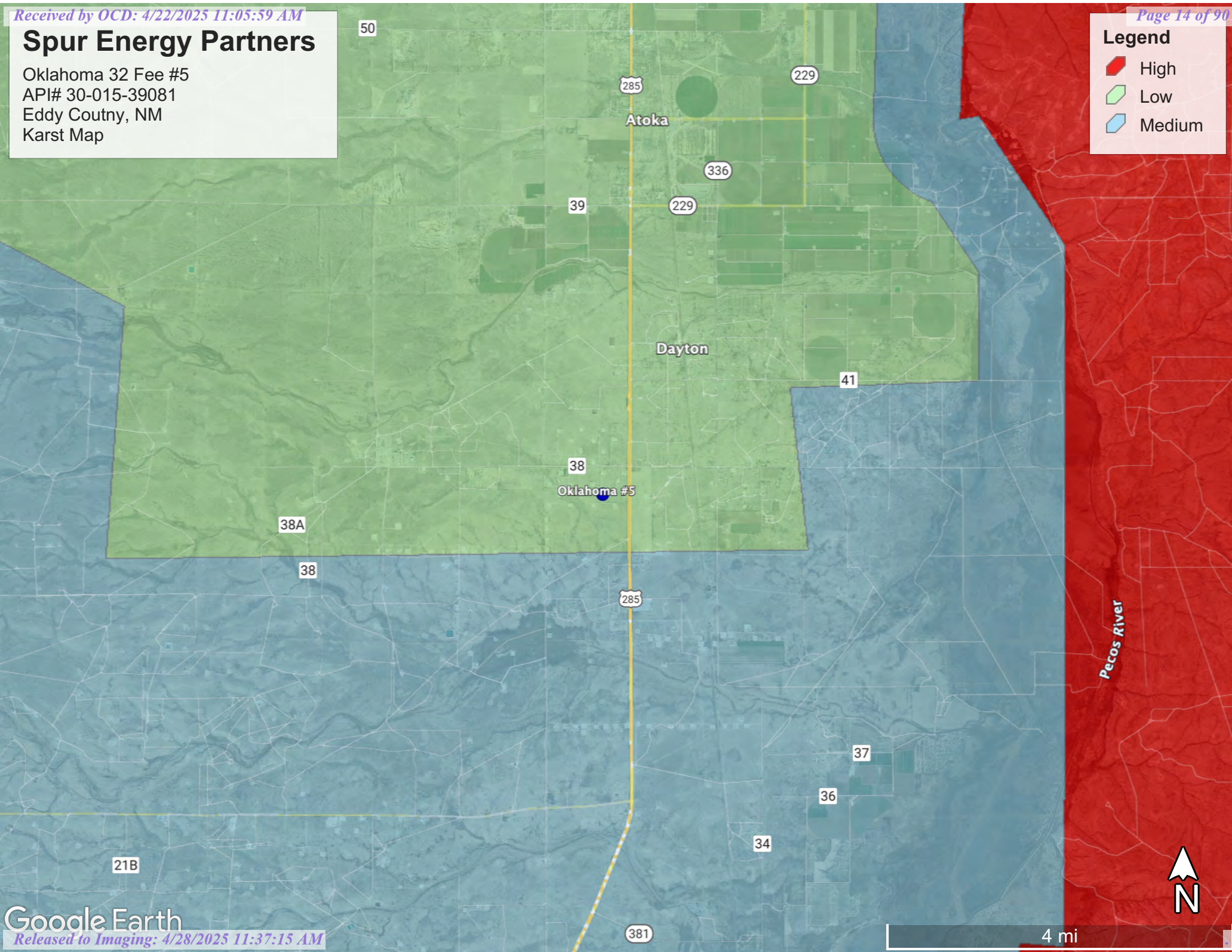




# Spur Energy Partners

Oklahoma 32 Fee #5  
API# 30-015-39081  
Eddy Coutny, NM  
Karst Map

- Legend**
- High
  - Low
  - Medium







# Spur Energy Partners

Oklahoma 32 Fee #5  
API# 30-015-39081  
Eddy County, NM  
Wetlands Map

## Legend

-  Waterway 2.11 Mile
-  Wetlands 3.13 Mile

Dayton

US Hwy 285

Oklahoma 32 Fee #5

285

1 mi



Google Earth

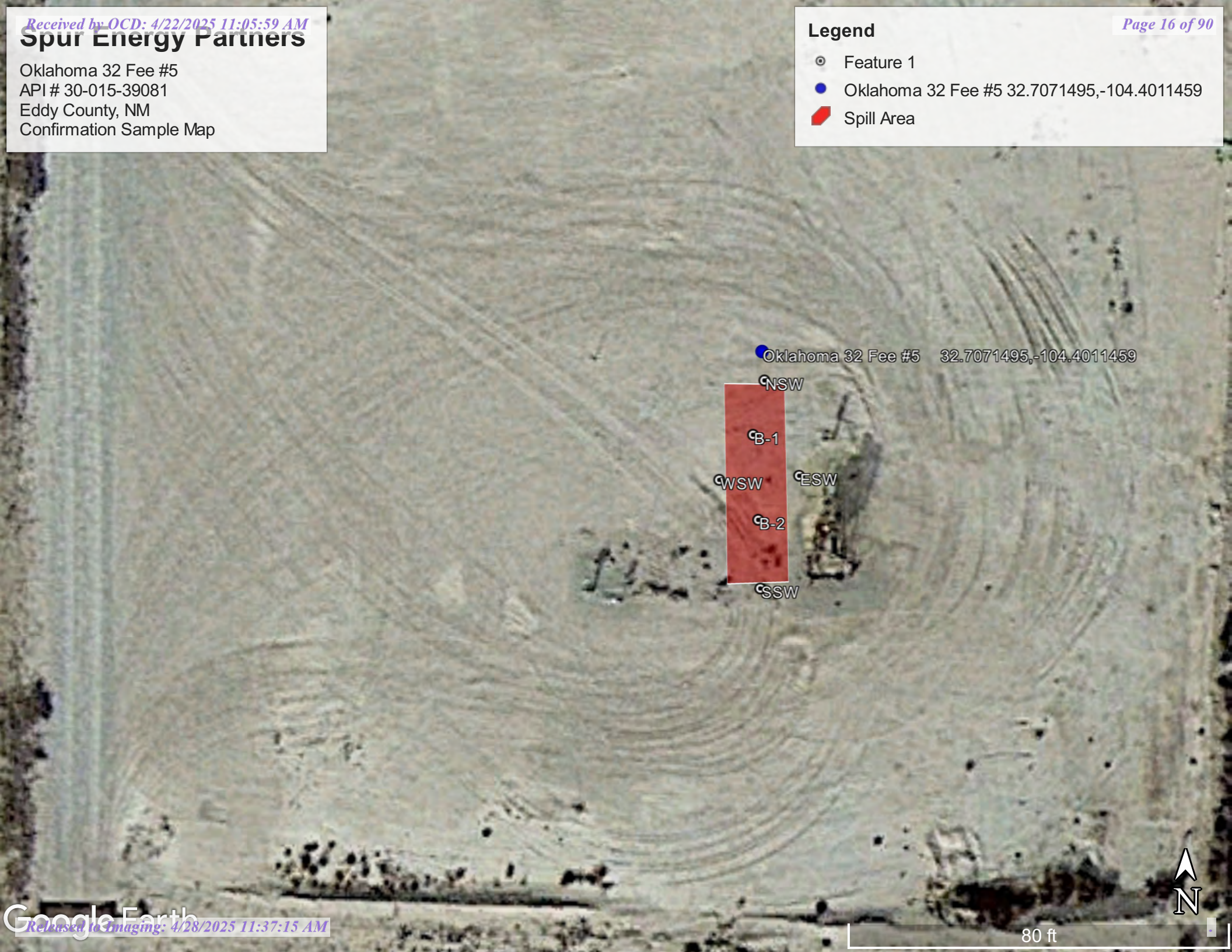


# Spur Energy Partners

Oklahoma 32 Fee #5  
API # 30-015-39081  
Eddy County, NM  
Confirmation Sample Map

## Legend

- Feature 1
- Oklahoma 32 Fee #5 32.7071495,-104.4011459
- Spill Area



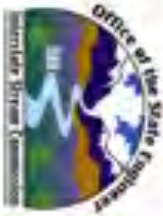




Appendix A  
Referenced Water Data:

New Mexico State of Engineers Office

USGS



# 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		Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
POD Number	Code																
<a href="#">RA01474 REPAR</a>	RA	ED	1	1	1	33	18S	26E	556754	3619377*		699		200			
<a href="#">RA01474 SUP</a>	RA	ED	1	1	1	33	18S	26E	556754	3619377*		699		210			
<a href="#">RA08812 REPAR</a>	RA	ED	4	4	4	29	18S	26E	556451	3619679*		751		350		150	200
<a href="#">RA01474 CLW</a>	RA	ED	2	3	1	33	18S	26E	556956	3618975*		775		225			
<a href="#">RA01474</a>	RA	ED	4	3	1	33	18S	26E	556956	3618775*		801		300			
<a href="#">RA09286</a>	RA	ED	2	4	4	29	18S	26E	556550	3619778*		881		300			
<a href="#">RA04136</a>	RA	ED	1	1	1	32	18S	26E	555246	3619273*		979		152		90	62

Average Depth to Water: 120 feet

Minimum Depth: 90 feet

Maximum Depth: 150 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 556180.325

Northing (Y): 3618977.449

Radius: 1000

\*UTM location was derived from PLSS - see Help

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.

9/19/22 1:50 PM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater



Geographic Area:

United States



GO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- How are we doing? We want to hear from you. Take our quick [survey](#) to tell us what you think.

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

## Search Results -- 1 sites found

site\_no list =

- 324244104243501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

## USGS 324244104243501 18S.26E.32.11100

Available data for this site

Groundwater: Field measurements



GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°42'44", Longitude 104°24'35" NAD27

Land-surface elevation 3,424 feet above NAVD88

The depth of the well is 152 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

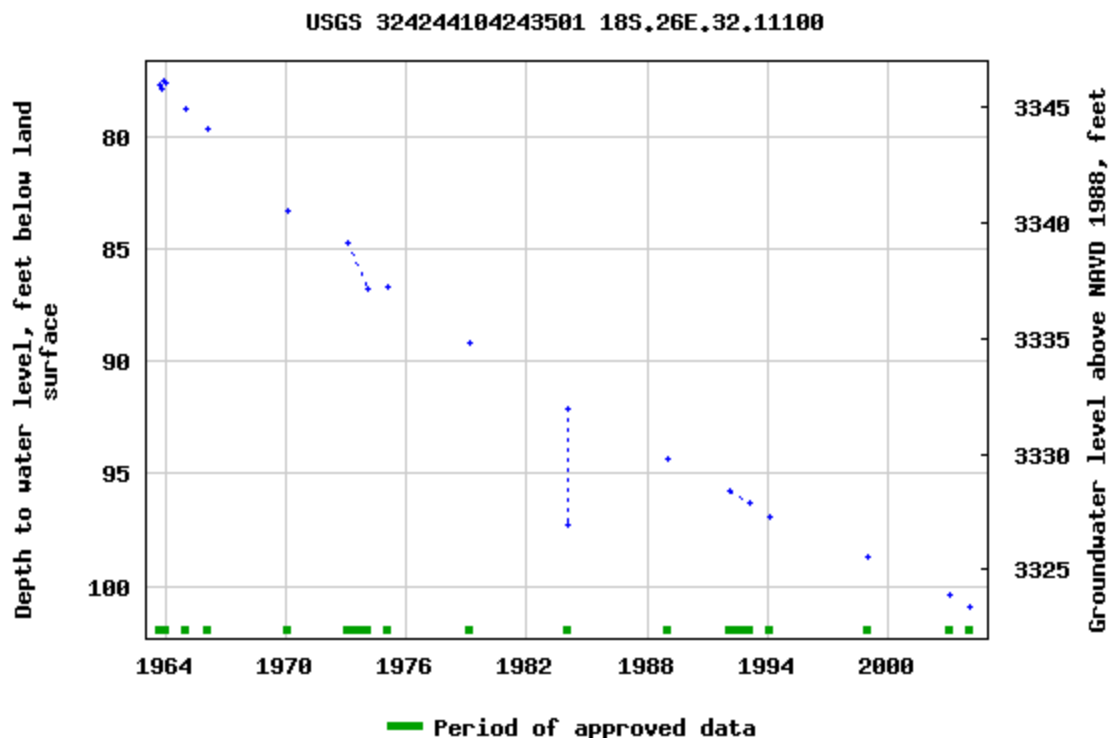
### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.  
[Download a presentation-quality graph](#)

[Questions or Comments](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

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[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

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

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2024-10-04 12:36:04 EDT

0.66 0.46 nadww02





Appendix B  
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Reagan loam, 0 to 1 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### Rc—Reagan loam, 0 to 1 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5l

*Elevation:* 1,100 to 5,300 feet

*Mean annual precipitation:* 7 to 15 inches

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

*Frost-free period:* 200 to 240 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Reagan and similar soils:* 97 percent

*Minor components:* 3 percent

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

#### Description of Reagan

##### Setting

*Landform:* Fan remnants, alluvial fans

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Parent material:* Alluvium and/or eolian deposits

##### Typical profile

*H1 - 0 to 8 inches:* loam

*H2 - 8 to 82 inches:* loam

##### Properties and qualities

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e

*Land capability classification (nonirrigated):* 6c

*Hydrologic Soil Group:* B

Map Unit Description: Reagan loam, 0 to 1 percent slopes---Eddy Area, New Mexico

---

*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### **Minor Components**

##### **Reeves**

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

##### **Reagan**

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

##### **Upton**

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 17, Sep 12, 2021



# National Flood Hazard Layer FIRMette



104°24'23"W 32°42'41"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 104°23'45"W 32°42'11"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
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/19/2022 at 3:43 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.





Appendix C:

NMOCD Notification

Photographic Documentation



OCD Permitting

HomeOperator DataAction StatusAction Search ResultsAction Status Item Details

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

Submission Information

Submission ID:	380278	Districts:	Artesia
Operator:	[328947] Spur Energy Partners LLC	Counties:	Eddy
Description:	Spur Energy Partners LLC [328947] , OKLAHOMA 32 FEE #5 , nAB1819157134		
Status:	APPROVED		
Status Date:	09/03/2024		
References (2):	30-015-39081, nAB1819157134		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAB1819157134
Incident Name	NAB1819157134 OKLAHOMA 32 FEE #5 @ 30-015-39081
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-39081] OKLAHOMA 32 FEE #005

Location of Release Source

Site Name	OKLAHOMA 32 FEE #5
Date Release Discovered	06/30/2018
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	2,800
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/05/2024
Time sampling will commence	08:00 AM
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	575-605-0773 Angel Pena
Please provide any information necessary for navigation to sampling site	Latitude 32.7071495 Longitude -104.4011459

Acknowledgments

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

Comments

No comments found for this submission.

Conditions

Summary:	apena (9/3/2024), 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

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:	435334	Districts:	Artesia
Operator:	[328947] Spur Energy Partners LLC	Counties:	Eddy
Description:	Spur Energy Partners LLC [328947] , OKLAHOMA 32 FEE #5 , nAB1819157134		
Status:	APPROVED		
Status Date:	02/25/2025		
References (2):	30-015-39081, nAB1819157134		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAB1819157134
Incident Name	NAB1819157134 OKLAHOMA 32 FEE #5 @ 30-015-39081
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-39081] OKLAHOMA 32 FEE #005

Location of Release Source

Site Name	OKLAHOMA 32 FEE #5
Date Release Discovered	06/30/2018
Surface Owner	Private

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	400
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/28/2025
Time sampling will commence	08:02 AM
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	angel pena 5756050773
Please provide any information necessary for navigation to sampling site	32.7071495,-104.4011459

Comments

No comments found for this submission.

Conditions

**Summary:**      *tristanjones (2/25/2025)*, 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.

Fees

No fees found for this submission.

Go Back





**Photographic Documentation**  
**Before Remediation**



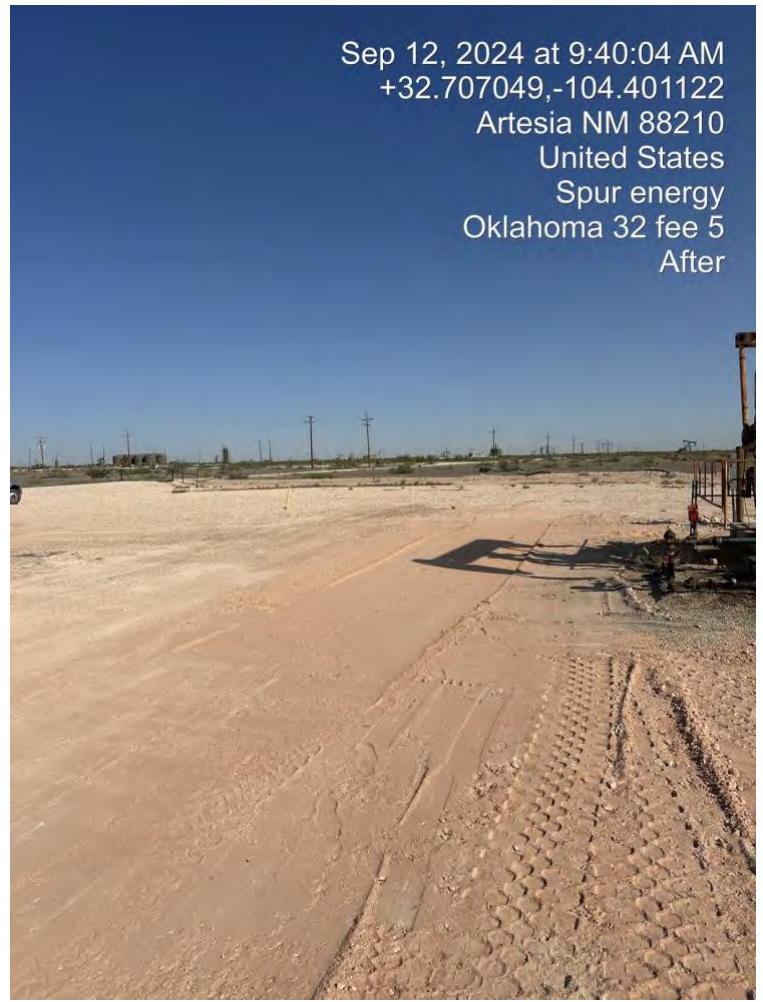


### During Remediation





Post Remediation





Appendix D:  
Laboratory Results





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

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August 24, 2022

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: OKLAHOMA 36 FEE

Enclosed are the results of analyses for samples received by the laboratory on 08/22/22 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 0-6" (H223830-01)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2022	ND	416	104	400	3.77		

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	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 76.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.8 % 46.3-178

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  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 6''-1' (H223830-02)**

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	08/23/2022	ND	2.10	105	2.00	0.669		
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93		
Total BTEx	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2022	ND	416	104	400	3.77	

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	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.3 % 46.3-178

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 0-6" (H223830-03)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/23/2022	ND	416	104	400	3.77	

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	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 1' (H223830-04)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2022	ND	416	104	400	3.77	

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	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 76.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 0-6" (H223830-05)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2022	ND	416	104	400	3.77	

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	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.6 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 1' (H223830-06)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2022	ND	416	104	400	3.77	

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	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.0 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 2' (H223830-07)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2022	ND	416	104	400	3.77	

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	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.7 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 3' (H223830-08)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/23/2022	ND	416	104	400	3.77		

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	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.9 % 46.3-178

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 0-6" (H223830-09)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/23/2022	ND	416	104	400	3.77	

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	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 72.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.8 % 46.3-178

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 1' (H223830-10)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2022	ND	416	104	400	3.77	

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	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 71.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 2' (H223830-11)**

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	08/23/2022	ND	2.10	105	2.00	0.669		
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/23/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 73.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 5 0-6" (H223830-12)**

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	08/23/2022	ND	2.10	105	2.00	0.669		
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93		
Total BTEx	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/23/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.1 % 46.3-178

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 5 1' (H223830-13)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.2 % 46.3-178

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 6 0-6" (H223830-14)**

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	08/23/2022	ND	2.10	105	2.00	0.669		
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93		
Total BTEx	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	08/23/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	64.4	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	23.5	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 69.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 0-6" (H223830-15)**

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	08/23/2022	ND	2.10	105	2.00	0.669		
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93		
Total BTEX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/23/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	194	97.0	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	182	90.8	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.9 % 46.3-178

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 8 0-6" (H223830-16)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 74.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.6 % 46.3-178

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 9 0-6" (H223830-17)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 70.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.6 % 46.3-178

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 10 0-6" (H223830-18)**

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	08/23/2022	ND	2.10	105	2.00	0.669		
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93		
Total BTEx	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 68.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 10 1' (H223830-19)**

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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTEx	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 11 0-6" (H223830-20)**

BTX 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	08/23/2022	ND	2.10	105	2.00	0.669	
Toluene*	<0.050	0.050	08/23/2022	ND	2.04	102	2.00	0.954	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.25	104	6.00	1.93	
Total BTX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	08/23/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 70.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 11 1' (H223830-21)**

BTX 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	08/22/2022	ND	2.05	103	2.00	0.679	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407	
Total BTX	<0.300	0.300	08/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	08/23/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 12 0-6" (H223830-22)**

BTX 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	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTX	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	08/23/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 71.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 12 6''-1' (H223830-23)**

BTX 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	08/22/2022	ND	2.05	103	2.00	0.679	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407	
Total BTX	<0.300	0.300	08/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/23/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 64.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 13 0-6" (H223830-24)**

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	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTEx	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 14 0-6" (H223830-25)**

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	08/22/2022	ND	2.05	103	2.00	0.679		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407		
Total BTEx	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.8 % 46.3-178

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  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 15 0-6" (H223830-26)**

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	08/22/2022	ND	2.05	103	2.00	0.679	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407	
Total BTEX	<0.300	0.300	08/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
5002 CARRAIGE RD  
HOBBS NM, 88242  
Fax To:

Received: 08/22/2022  
Reported: 08/24/2022  
Project Name: OKLAHOMA 36 FEE  
Project Number: SPUR  
Project Location: 32.707149-104.401146

Sampling Date: 08/19/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 16 0-6" (H223830-27)**

BTX 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	08/22/2022	ND	2.05	103	2.00	0.679	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.4	2.00	1.62	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.97	98.7	2.00	0.238	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.11	102	6.00	0.407	
Total BTX	<0.300	0.300	08/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	213	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	194	96.8	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 70.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



1 of 3

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: 225 Billy Walker Rd

City: Hobbs

Phone #: (575)631-6977

Project #:

Project Name: Oklahoma 36 FEE

Project Location: 329 707114, -104.401146

Sampler Name: Jeremy Walker

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H22 3830

1 0-2m 0-16"

2 0-1 10"-1'

3 0-2 0-6"

4 0-2 1'

5 0-3 0-6"

6 0-3 1'

7 0-3 2'

8 0-3 3'

9 0-4 0-6"

10 0-4 1'

(G)RAB OR (C)OMP.	
# CONTAINERS	
GROUNDWATER	
WASTEWATER	
SOIL	
OIL	
SLUDGE	
OTHER :	
ACID/BASE:	
ICE / COOL	
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TPHEX.  
BTEX  
Chlorides

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

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September 11, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: OKLAHOMA 32 FEE #5

Enclosed are the results of analyses for samples received by the laboratory on 09/06/24 11:31.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/06/2024  
Reported: 09/11/2024  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 09/06/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: B - 1 (H245406-01)**

BTX 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	09/09/2024	ND	1.91	95.6	2.00	4.21	
Toluene*	<0.050	0.050	09/09/2024	ND	1.87	93.6	2.00	5.44	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	1.96	98.1	2.00	6.54	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.00	100	6.00	6.78	
Total BTX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	80.0	16.0	09/09/2024	ND	432	108	400	7.69		

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	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 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: 09/06/2024  
Reported: 09/11/2024  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 09/06/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: B - 2 (H245406-02)**

BTX 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	09/09/2024	ND	1.91	95.6	2.00	4.21		
Toluene*	<0.050	0.050	09/09/2024	ND	1.87	93.6	2.00	5.44		
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	1.96	98.1	2.00	6.54		
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.00	100	6.00	6.78		
Total BTX	<0.300	0.300	09/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	64.0	16.0	09/09/2024	ND	432	108	400	7.69		

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	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 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: 09/06/2024  
Reported: 09/11/2024  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 09/06/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: NSW (H245406-03)**

BTX 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	09/09/2024	ND	1.91	95.6	2.00	4.21		
Toluene*	<0.050	0.050	09/09/2024	ND	1.87	93.6	2.00	5.44		
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	1.96	98.1	2.00	6.54		
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.00	100	6.00	6.78		
Total BTX	<0.300	0.300	09/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	80.0	16.0	09/09/2024	ND	432	108	400	7.69		

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	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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: 09/06/2024  
Reported: 09/11/2024  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 09/06/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: ESW (H245406-04)**

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	09/09/2024	ND	1.91	95.6	2.00	4.21		
Toluene*	<0.050	0.050	09/09/2024	ND	1.87	93.6	2.00	5.44		
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	1.96	98.1	2.00	6.54		
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.00	100	6.00	6.78		
Total BTEx	<0.300	0.300	09/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	64.0	16.0	09/09/2024	ND	432	108	400	7.69		

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	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 09/06/2024  
Reported: 09/11/2024  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 09/06/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SSW (H245406-05)**

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	09/09/2024	ND	1.98	99.1	2.00	5.72	QM-07, QR-03
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	QR-03
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEx	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	64.0	16.0	09/09/2024	ND	432	108	400	7.69		

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	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 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: 09/06/2024  
Reported: 09/11/2024  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 09/06/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: WSW (H245406-06)**

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	09/09/2024	ND	1.98	99.1	2.00	5.72		
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89		
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10		
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744		
Total BTEx	<0.300	0.300	09/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	64.0	16.0	09/09/2024	ND	432	108	400	7.69		

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	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Barragan Environmental</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																											
Project Manager: <b>Chris Jones</b>		P.O. #:																													
Address: <b>1601 W Turner St. Ste 500</b>		Company: <b>Spor Energy</b>																													
City: <b>Hobbs</b>		Attn: <b>Kathy Purvis</b>																													
State: <b>NM</b> Zip: <b>88240</b>		Address:																													
Phone #: <b>575 318 6841</b> Fax #:		City:																													
Project #:		State:																													
Project Name: <b>Oklahoma 32 Fee #5</b>		Zip:																													
Project Location: <b>Eddy, NM</b>		Phone #:																													
Sampler Name: <b>Triston Jones</b>		Fax #:																													
FOR LAB USE ONLY																															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		TPH EXT		Chlorides		BTEX	
		# CONTAINERS	MATRIX		PRESERV.		SAMPLING																								
11245420	B-1	1	1																												
2	B-2	2	1																												
3	NSW	3	1																												
4	ESW	4	1																												
5	SSW	5	1																												
6	WSW	6	1																												
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Relinquished By: <b>[Signature]</b>		Date: <b>9/6</b>		Received By: <b>[Signature]</b>		Date: <b>9/6/24</b>		Time: <b>11:24</b>		Time: <b>11:31</b>		REMARKS: <b>Triston Barragan Environmental - net</b>																			
Relinquished By:		Date:		Received By:		Date:		Time:		Time:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		All Results are emailed. Please provide Email address:																	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only) Sample Condition																			
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #140		Rush <input type="checkbox"/>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No																			
FORM 006 REV 06/07/24		3.00		3.00		[Signature]		3.00		[Signature]		[Signature]																			

† Cardinal cannot accept verbal changes. Please email changes to celsey.keene@cardinallabsnm.com



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

---

March 06, 2025

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: OKLAHOMA 32 FEE #5

Enclosed are the results of analyses for samples received by the laboratory on 02/28/25 16:43.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/28/2025  
Reported: 03/06/2025  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NOT GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 02/28/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: S - 1 1' (H251234-01)**

BTEx 8021B		mg / kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2025	ND	2.02	101	2.00	0.127	
Toluene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.0621	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.02	101	2.00	0.0935	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	5.92	98.7	6.00	0.00143	
Total BTEx	<0.300	0.300	03/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	03/04/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	186	93.0	200	6.53	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	182	90.8	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 71.8-148

Surrogate: 1-Chlorooctadecane 98.7 % 63.9-155

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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: 02/28/2025  
Reported: 03/06/2025  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NOT GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 02/28/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: S - 2 1' (H251234-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2025	ND	2.02	101	2.00	0.127		
Toluene*	<0.050	0.050	03/03/2025	ND	2.10	105	2.00	0.0621		
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.02	101	2.00	0.0935		
Total Xylenes*	<0.150	0.150	03/03/2025	ND	5.92	98.7	6.00	0.00143		
Total BTX	<0.300	0.300	03/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	03/04/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	186	93.0	200	6.53	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	182	90.8	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 82.9 % 71.8-148

Surrogate: 1-Chlorooctadecane 84.3 % 63.9-155

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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: 02/28/2025  
Reported: 03/06/2025  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NOT GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 02/28/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: NSW - 1 1' (H251234-03)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	2.01	100	2.00	1.66		
Toluene*	<0.050	0.050	03/04/2025	ND	2.09	104	2.00	1.68		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.03	101	2.00	2.03		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	5.97	99.4	6.00	1.73		
Total BTX	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	03/04/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	186	93.0	200	6.53	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	182	90.8	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 71.8-148

Surrogate: 1-Chlorooctadecane 95.3 % 63.9-155

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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: 02/28/2025  
Reported: 03/06/2025  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NOT GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 02/28/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: ESW - 1 1' (H251234-04)**

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	03/04/2025	ND	2.01	100	2.00	1.66	
Toluene*	<0.050	0.050	03/04/2025	ND	2.09	104	2.00	1.68	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.03	101	2.00	2.03	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	5.97	99.4	6.00	1.73	
Total BTEx	<0.300	0.300	03/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	03/04/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	186	93.0	200	6.53	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	182	90.8	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 71.8-148

Surrogate: 1-Chlorooctadecane 89.8 % 63.9-155

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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: 02/28/2025  
Reported: 03/06/2025  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NOT GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 02/28/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SSW - 1 1' (H251234-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	2.01	100	2.00	1.66		
Toluene*	<0.050	0.050	03/04/2025	ND	2.09	104	2.00	1.68		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.03	101	2.00	2.03		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	5.97	99.4	6.00	1.73		
Total BTX	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	03/04/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	186	93.0	200	6.53	
DRO >C10-C28*	<10.0	10.0	03/04/2025	ND	182	90.8	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/04/2025	ND					

Surrogate: 1-Chlorooctane 79.7 % 71.8-148

Surrogate: 1-Chlorooctadecane 84.6 % 63.9-155

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**Analytical Results For:**

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

Received: 02/28/2025  
Reported: 03/06/2025  
Project Name: OKLAHOMA 32 FEE #5  
Project Number: NOT GIVEN  
Project Location: SPUR - EDDY CO NM

Sampling Date: 02/28/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: WSW - 1 1' (H251234-06)**

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	03/04/2025	ND	2.01	100	2.00	1.66		
Toluene*	<0.050	0.050	03/04/2025	ND	2.09	104	2.00	1.68		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.03	101	2.00	2.03		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	5.97	99.4	6.00	1.73		
Total BTEx	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	48.0	16.0	03/04/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	186	93.0	200	6.53	
DRO >C10-C28*	<10.0	10.0	03/04/2025	ND	182	90.8	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	03/04/2025	ND					

Surrogate: 1-Chlorooctane 93.5 % 71.8-148

Surrogate: 1-Chlorooctadecane 94.7 % 63.9-155

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Notes and Definitions

- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND      Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*      Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Caley D. Keene".

Caley D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

QUESTIONS

Action 454261

**QUESTIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 454261
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAB1819157134
Incident Name	NAB1819157134 OKLAHOMA 32 FEE #5 @ 30-015-39081
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-39081] OKLAHOMA 32 FEE #005

**Location of Release Source**

Please answer all the questions in this group.

Site Name	OKLAHOMA 32 FEE #5
Date Release Discovered	06/30/2018
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Corrosion   Tank (Any)   Crude Oil   Released: 7 BBL   Recovered: 5 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Tank (Any)   Produced Water   Released: 43 BBL   Recovered: 31 BBL   Lost: 12 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 454261

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 454261
	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)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a 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: 04/22/2025
--	--

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QUESTIONS, Page 3

Action 454261

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 454261
	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	U.S. Geological Survey
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	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 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 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<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)	1150
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	87.9
GRO+DRO (EPA SW-846 Method 8015M)	64.4
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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	09/04/2024
On what date will (or did) the final sampling or liner inspection occur	02/28/2025
On what date will (or was) the remediation complete(d)	02/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	400
What is the estimated volume (in cubic yards) that will be remediated	15

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 454261

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	454261
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(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.
<i>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>	
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: <a href="mailto:katherine.purvis@spurenergy.com">katherine.purvis@spurenergy.com</a> Date: 04/22/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 454261

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 454261
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 454261

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 454261
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	435334
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/28/2025
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	400

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	400
What was the total volume (cubic yards) remediated	15
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	SOIL CONTAMINANTS WERE REMOVED IN ACCORDANCE WITH THE MOST STRINGENT CRITERIA SET FORTH BY NMOCD.
<i>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>	
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: <a href="mailto:katherine.purvis@spurenergy.com">katherine.purvis@spurenergy.com</a> Date: 04/22/2025

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QUESTIONS, Page 7

Action 454261

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 454261
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 454261

**CONDITIONS**

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**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	4/28/2025
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/28/2025
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	4/28/2025