



July 21, 2023

NMOCD District 2  
Mike Bratcher  
Artesia, NM 88210

Bureau of Land Management  
Crisha Morgan  
Carlsbad Field Office

**Re: Site Assessment, Remediation, and Closure Report  
Rose North CTB  
GPS: Latitude 32.680508 Longitude -104.427371  
UL "D", Sec. 07, T19S, R26E  
Eddy County, NM  
NMOCD Ref. No. NAPP2130548119**

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 Rose North CTB (Rose). Details of the release are summarized below:

Release Details			
<b>Type of Release:</b>	Produced Water	<b>Volume of Release:</b>	9 bbls
		<b>Volume Recovered:</b>	8 bbls
<b>Source of Release:</b>	Valve	<b>Date of Release:</b>	10/30/21
<b>Was Immediate Notice Given?</b>	No	<b>If, Yes, to Whom?</b>	N/A
<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>	Federal
A valve busted and released 9 barrels of produced water into the earthened berm containment.			

Topographical and Aerial Maps are provided in Figures #2 and #4. A copy of the Initial Release Notification and Corrective Action (NMOCD Form C-141) can be found in Appendix C.



## REGULATORY FRAMEWORK

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:

Site Characteristics	
Approximate Depth to Groundwater	50'
Within 330 ft. of any continuously flowing or significant watercourse?	NO
Within 200 ft. of any lakebed, sinkhole, or playa lake?	NO
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	NO
Within 500 ft. of a spring, private, or domestic freshwater well?	NO
Within 1000 ft. of any fresh water well?	NO
Within the incorporated municipal boundaries or within a municipal well field?	NO
Within 300 ft. of a wetland?	NO
Within the area overlying a subsurface mine?	NO
Within an unstable area such as Karst?	NO
Within a 100-year floodplain?	NO

A search of the groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average groundwater depth within one (1) Mile radius of the Release Site and identify any registered water wells within ½ Mile of the Release Site. The data initially found on the State Engineers website showed there was NO water data within a ½ mile radius. With this being the case, we cleaned it up to the most stringent criteria.

Depth to groundwater information is provided in Appendix A.

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 of Pima Silt Loam, with 0 to 1 percent slopes, and Reagan-Upton Association, with 0 to 9 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are both well-drained. There is NOT a high potential for karst geology to be present around the Rose (Figure #3).

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

TABLE I CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE			
	Constituent	Method	Limit
<50' Feet	Chloride	EPA 300.0	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



## INITIAL SITE ASSESSMENT

On November 15th, 2022, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples in the area where the spill had flowed from the corroded valve and into the earthen bermed-contained area. Seven (7) soil samples were collected in this area in an effort 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. The tables summarizing laboratory analytical results from soil samples collected during the above-stated activities are provided below:

11-15-22 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC Karst Area								
Sample Date 11-15-22		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
S-1	0-6"	ND	ND	ND	ND	ND	ND	1310
	1'	ND	ND	ND	ND	ND	ND	1600
	2'	ND	ND	ND	ND	ND	ND	1440
	3'	ND	ND	ND	ND	ND	ND	944
	4'	ND	ND	ND	ND	ND	ND	1520
S-2	0-6"	ND	ND	ND	14.7	ND	14.7	3720
	1'	ND	ND	ND	ND	ND	ND	3600
	2'	ND	ND	ND	ND	ND	ND	2840
S-3	0-6"	ND	ND	ND	ND	ND	ND	2880
	1'	ND	ND	ND	ND	ND	ND	880
	2'	ND	ND	ND	ND	ND	ND	1340
S-4	0-6"	ND	ND	ND	ND	ND	ND	10500
	1'	ND	ND	ND	ND	ND	ND	1460
	2'	ND	ND	ND	ND	ND	ND	1550
	3'	ND	ND	ND	ND	ND	ND	1580
S-5	0-6"	ND	ND	ND	ND	ND	ND	16
	1'	ND	ND	ND	ND	ND	ND	ND
	2'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
S-6	0-6"	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	32
S-7	0-6"	ND	ND	ND	125	31	156	3520
	1'	ND	ND	ND	23.4	ND	23.4	2720
	2'	ND	ND	ND	228	58.3	286.3	2600

(ND) Analyte Not Detected / (--) Analyte Not Tested

A Site Map is provided in Figure #1.



## REMEDATION ACTIVITIES

On June 12, 2023, Paragon mobilized personnel and 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 scope of work went was as follows:

- In the vicinity of S-1, S-2, S-3, S-4, and S-7 we excavated to 4-feet BGS.

An email notification was sent to the NMOCD on June 20, 2023, prior to obtaining confirmation samples. This email did not list this incident number in the email, but a follow-up email was sent advising that this incident number should've been added. The email addressed samples that were obtained for this project. We were working on two incidents with the same footprint. We utilized 5-point bottom composite sampling and sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this sampling event are in the following data table.

6-26-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')							
Sample Date 6-26-23	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S - 1 4'	ND	ND	ND	ND	ND	0	720
S - 2 4'	ND	ND	ND	ND	ND	0	336
S - 3 4'	ND	ND	ND	ND	ND	0	336
S - 4 4'	ND	ND	ND	ND	ND	0	192
S - 5 4'	ND	ND	ND	ND	ND	0	656
S - 6 4'	ND	ND	ND	ND	ND	0	144
S - 7 4'	ND	ND	ND	ND	ND	0	336
S - 8 4'	ND	ND	ND	ND	ND	0	160
S - 9 4'	ND	ND	ND	ND	ND	0	192
S - 10 4'	ND	ND	ND	ND	ND	0	112
S - 11 4'	ND	ND	ND	15.3	ND	15.3	96
S - 12 4'	ND	ND	ND	ND	ND	0	160
S - 13 4'	ND	ND	ND	ND	ND	0	256
ESW - 1 4'	ND	ND	ND	ND	ND	0	864
ESW - 2 4'	ND	ND	ND	ND	ND	0	192
ESW - 3 4'	ND	ND	ND	ND	ND	0	176
ESW - 4 4'	ND	ND	ND	ND	ND	0	112
NSW - 1 4'	ND	ND	ND	ND	ND	0	496
NSW - 2 4'	ND	ND	ND	ND	ND	0	112
NSW - 3 4'	ND	ND	ND	ND	ND	0	288
NSW - 4 4'	ND	ND	ND	ND	ND	0	96
SSW - 1 4'	ND	ND	ND	ND	ND	0	320
SSW - 2 4'	ND	ND	ND	ND	ND	0	80
SSW - 3 4'	ND	ND	ND	ND	ND	0	432
SSW - 4 4'	ND	ND	ND	ND	ND	0	448
WSW - 1 4'	ND	ND	ND	ND	ND	0	352
WSW - 2 4'	ND	ND	ND	ND	ND	0	752
WSW - 3 4'	ND	ND	ND	ND	ND	0	128
WSW - 4 4'	ND	ND	ND	ND	ND	0	144

(ND) Analyte Not Detected / (--) Analyte Not Tested



These laboratory analytical results showed that the soil sample concentrations were not below NMOCD Closure Criteria in the areas of S-1, ESW-1, and WSW-2. We went back to the site to further our excavation. We removed an additional one foot horizontally from the sidewalls of ESW-1 and WSW-2 until clean field titrations were obtained. We also removed several inches from the bottom of S-1 until our field titrations reached clean levels. These samples were jarred and sent to the lab for official analysis. The results of this sampling event are in the following data table.

6-28-23 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')							
Sample Date 6-28-23	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S - 1 4'	--	--	--	--	--	0	64
S - 2 4'	--	--	--	--	--	0	160
S - 3 4'	--	--	--	--	--	0	128
ESW - 1 4'	--	--	--	--	--	0	128
WSW - 2 4'	--	--	--	--	--	0	144

(ND) Analyte Not Detected / (--) Analyte Not Tested

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



### CLOSURE REQUEST

After careful review, Paragon requests that the incident, NAPP2130548119, 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)631-6977 or email at [chris@paragonenvironmental.net](mailto:chris@paragonenvironmental.net)

Respectfully,



Tristan Jones  
Project Coordinator  
Paragon Environmental, LLC



Chris Jones  
Environmental Professional  
Paragon Environmental, LLC



### Attachments

#### **Figures:**

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

#### **Appendices:**

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and FEMA Flood Map
- Appendix C – C-141
- Appendix D – Email Notification & Photographic Documentation
- Appendix E – Laboratory Reports





Figures:




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

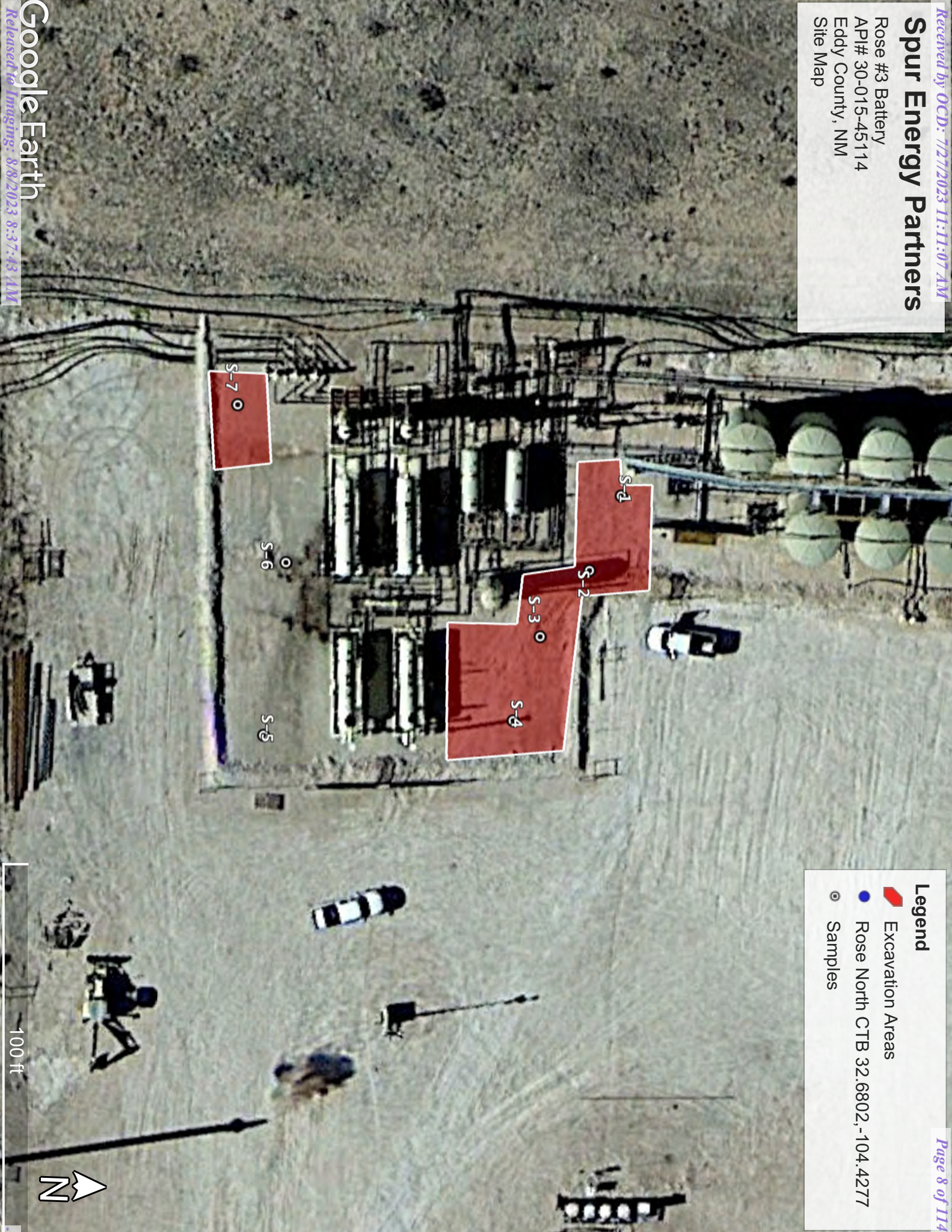


# Spur Energy Partners

Rose #3 Battery  
API# 30-015-45114  
Eddy County, NM  
Site Map

## Legend

-  Excavation Areas
-  Rose North CTB 32.6802,-104.4277
-  Samples



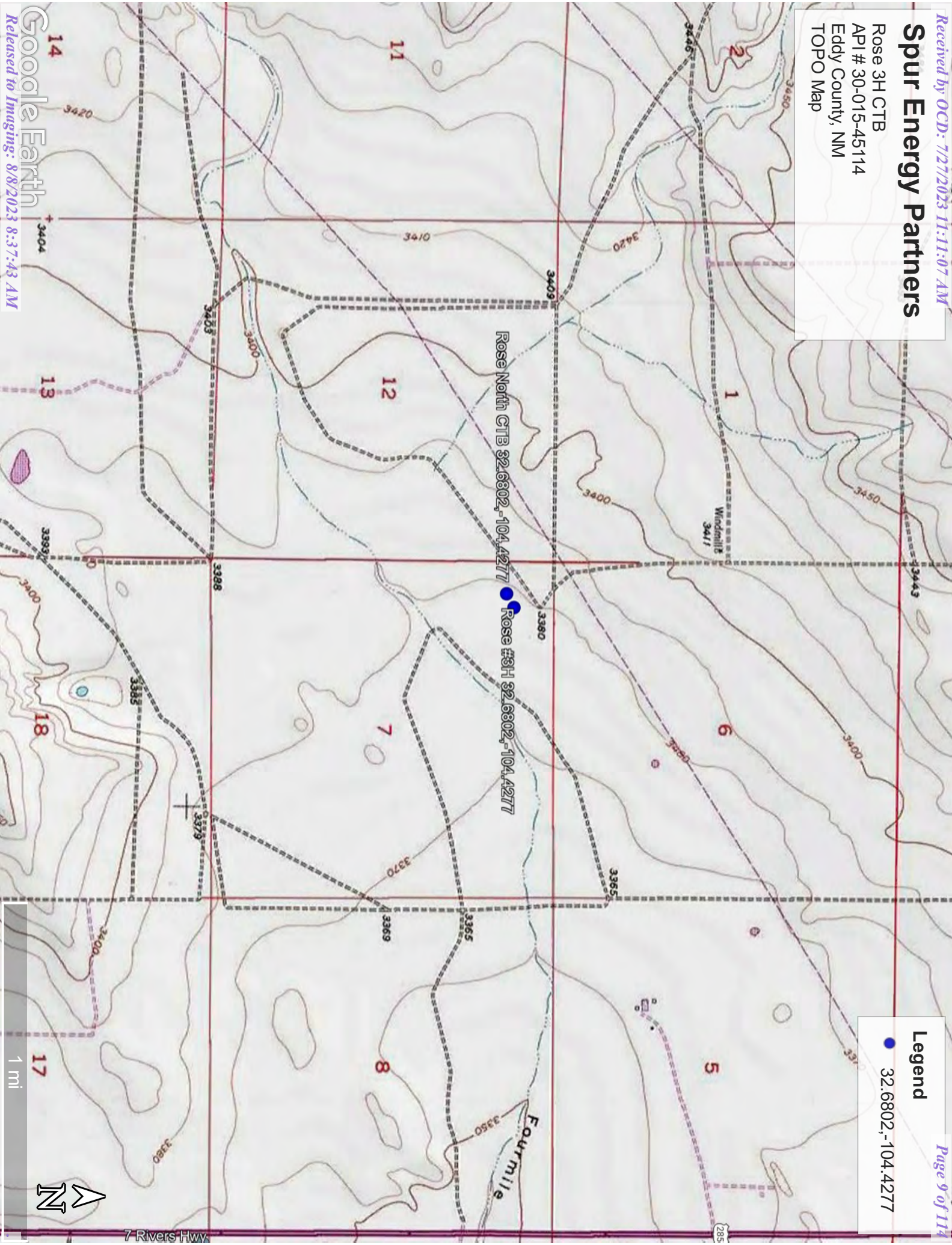


# Spur Energy Partners

Rose 3H CTB  
API # 30-015-45114  
Eddy County, NM  
TOPO Map

## Legend

● 32.6802,-104.4277





# Spur Energy Partners

Rose 3H CTB  
API # 30-015-45114  
Eddy County, NM  
Karst Map

38A

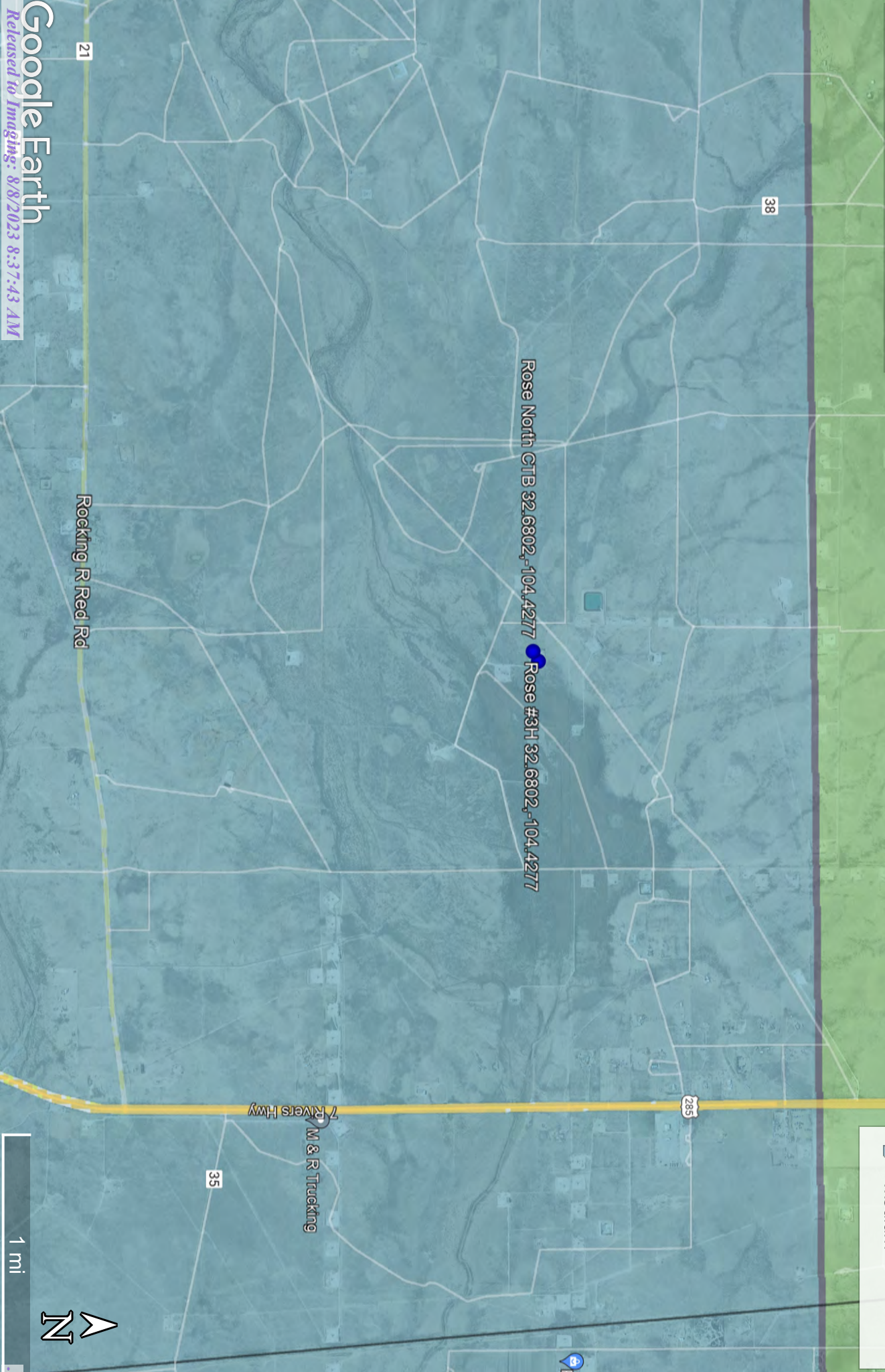
**Legend**

32.6802,-104.4277

High

Low

Medium



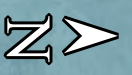
21

38

285

35

1 mi



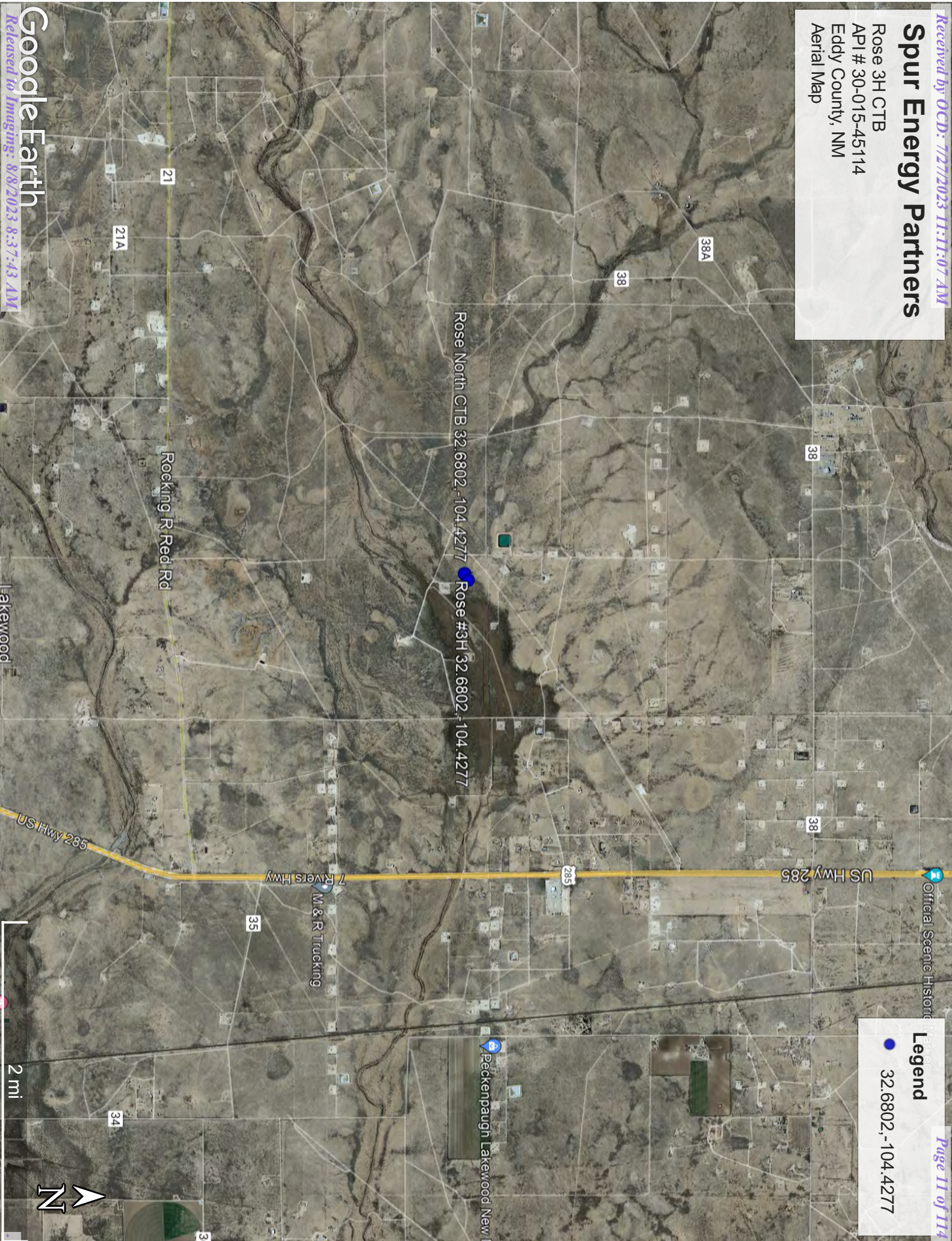


# Spur Energy Partners

Rose 3H CTB  
API # 30-015-45114  
Eddy County, NM  
Aerial Map

## Legend

● 32.6802, -104.4277





# Spur Energy Partners

Rose North CTB  
API # N/A  
Eddy County, NM  
Confirmation Sample Map

## Legend

- Rose North CTB 32.6802,-104.4277
- sq/ft

Rose North CTB 32.6802,-104.4277







Appendix A  
Referenced Water Data:

New Mexico State of Engineers Office





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">RA 03983</a>	RA	CH		4	3	01	19S	25E		552457	3616444*		1302	375	100 275
<a href="#">RA 01343</a>	RA	ED	2	1	1	18	19S	26E		553777	3614525*		1490	440	69 371

Average Depth to Water: 84 feet

Minimum Depth: 69 feet

Maximum Depth: 100 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 553686

Northing (Y): 3616012.453

Radius: 1600

\*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.

7/11/23 5:00 PM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER





Appendix B  
Soil Survey:

U.S.D.A.

FEMA Flood Map



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

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## Eddy Area, New Mexico

### PM—Pima silt loam, 0 to 1 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w56

*Elevation:* 600 to 4,200 feet

*Mean annual precipitation:* 8 to 25 inches

*Mean annual air temperature:* 60 to 70 degrees F

*Frost-free period:* 195 to 290 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Pima and similar soils:* 98 percent

*Minor components:* 2 percent

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

#### Description of Pima

##### Setting

*Landform:* Flood plains, alluvial flats, alluvial fans

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

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear, convex

*Parent material:* Alluvium

##### Typical profile

*H1 - 0 to 3 inches:* silt loam

*H2 - 3 to 60 inches:* silty clay loam

##### Properties and qualities

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high (0.20 to 0.60 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* RareNone

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* High (about 11.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 1

*Land capability classification (nonirrigated):* 7c

*Hydrologic Soil Group:* C

*Ecological site:* R070BC017NM - Bottomland



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

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*Hydric soil rating:* No

#### **Minor Components**

##### **Reagan**

*Percent of map unit:* 1 percent

*Ecological site:* R070BC007NM - Loamy

*Hydric soil rating:* No

##### **Dev**

*Percent of map unit:* 1 percent

*Ecological site:* R070BC017NM - Bottomland

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022





Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### RE—Reagan-Upton association, 0 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5d

*Elevation:* 1,100 to 5,400 feet

*Mean annual precipitation:* 6 to 14 inches

*Mean annual air temperature:* 60 to 64 degrees F

*Frost-free period:* 180 to 240 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Reagan and similar soils:* 70 percent

*Upton and similar soils:* 25 percent

*Minor components:* 5 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 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 3 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):* 6e



Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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*Hydrologic Soil Group:* B  
*Ecological site:* R042CY153NM - Loamy  
*Hydric soil rating:* No

### Description of Upton

#### Setting

*Landform:* Ridges, fans  
*Landform position (three-dimensional):* Side slope, rise  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Residuum weathered from limestone

#### Typical profile

*H1 - 0 to 9 inches:* gravelly loam  
*H2 - 9 to 13 inches:* gravelly loam  
*H3 - 13 to 21 inches:* cemented  
*H4 - 21 to 60 inches:* very gravelly loam

#### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 75 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R042CY159NM - Shallow Loamy  
*Hydric soil rating:* No

### Minor Components

#### Atoka

*Percent of map unit:* 3 percent  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

#### Pima

*Percent of map unit:* 2 percent  
*Ecological site:* R070BC017NM - Bottomland



Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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*Hydric soil rating:* No

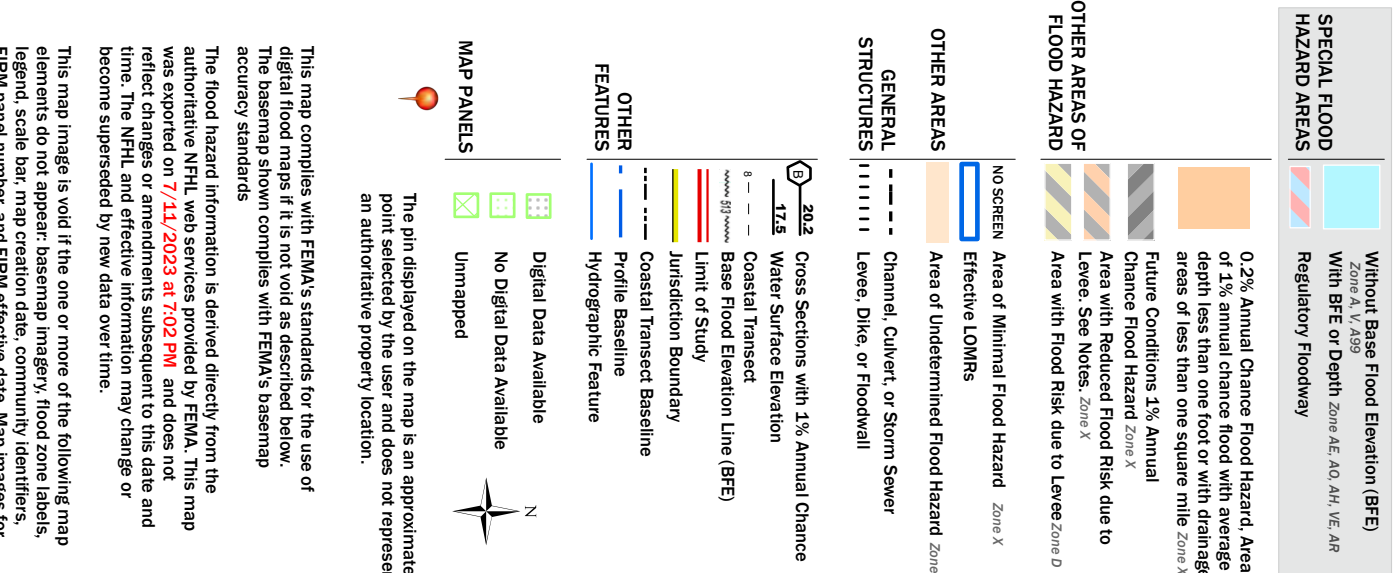
## Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022



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



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 NPHL web services provided by FEMA. This map was exported on **7/14/2023 at 7:02 PM** and does not reflect changes or amendments subsequent to this date and time. The NPHL 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: base map imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmortgaged areas cannot be used for regulatory purposes.





Appendix C:

C-141





## OCD Permitting

### [NOTIFY] Notification Of Release (NOR) Application

#### Submission Information

Submission ID:	58905	Districts:	Artesia
Operator:	<a href="#">[328947]</a> Spur Energy Partners LLC	Counties:	Eddy
Description:	Spur Energy Partners LLC [328947] Rose North CTB nAPP2130548119 (Discovery: 10/30/2021, Active, , Private)		
Status:	APPROVED		
Status Date:	11/01/2021		
References (1):	nAPP2130548119		

#### Forms

This application type does not have attachments.

#### Questions

##### Location of Release Source

Please answer all the questions in this group.

Site Name	<a href="#">Rose North CTB</a>
Date Release Discovered	<a href="#">10/30/2021</a>
Surface Owner	<a href="#">Private</a>

##### Incident Details

Please answer all the questions in this group.

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

##### 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	<a href="#">Not answered.</a>
Produced Water Released (bbls) Details	<a href="#">Cause: Equipment Failure   Valve   Produced Water   Released: 9 BBL   Recovered: 8 BBL   Lost: 1 BBL.</a>
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	<a href="#">Yes</a>
Condensate Released (bbls) Details	<a href="#">Not answered.</a>
Natural Gas Vented (Mcf) Details	<a href="#">Not answered.</a>
Natural Gas Flared (Mcf) Details	<a href="#">Not answered.</a>
Other Released Details	<a href="#">Not answered.</a>
Are there <a href="#">additional details</a> for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<a href="#">Not answered.</a>

##### Nature and Volume of Release (continued)

Is this a gas only submission (i.e. only significant Mcf values reported)	<a href="#">No, according to supplied volumes this does not appear to be a "gas only" report.</a>
Was this a major release as defined by 19.15.29.7(A) NMAC	<a href="#">No, minor release.</a>
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	<a href="#">Not answered.</a>
If YES, was immediate notice given to the OCD, to whom	<a href="#">Not answered.</a>
If YES, was immediate notice given to the OCD, when	<a href="#">Not answered.</a>
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	<a href="#">Not answered.</a>

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

Per 19.15.29.8 B. (4) 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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

#### Acknowledgments

- ☒ I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
- ☒ I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
- ☒ I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
- ☒ 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.
- ☒ I acknowledge the fact that 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.
- ☒ I acknowledge the fact that, 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.

#### Comments

No comments found for this submission.

#### Conditions

Summary:	<a href="#">dnee11 (11/1/2021)</a> , When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.
----------	--

#### Reasons

No reasons found for this submission.

Go Back



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NAPP2130548119
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Spur Energy Partners	OGRID 328947
Contact Name Kathy Purvis	Contact Telephone 575-441-8619
Contact email: katherine.purvis@spurenergy.com	Incident # (assigned by OCD)
Contact mailing address 919 Milam Street Suite 2475 Houston, TX 77002	

### Location of Release Source

Latitude 32.8358383 Longitude -103.9736481  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Rose North CTB	Site Type Production Facility
Date Release Discovered 10/30/21	API#

Unit Letter	Section	Township	Range	County
D	07	19S	26E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (9 bbls)	Volume Recovered (8 bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

A valve broke, causing a release of produced water in the bermed containment.



Incident ID	nAPP2130548119
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: Kathy Purvis.	Title: HSE Coordinator
Signature: <u>Katherine Purvis</u>	Date: <u>7/27/23</u>
email: <a href="mailto:katherine.purvis@spurenergy.com">katherine.purvis@spurenergy.com</a>	Telephone: 575-441-8619
<b><u>OCD Only</u></b>	
Received by: <u>Shelly Wells</u>	Date: <u>7/27/2023</u>



Incident ID	nAPP2130548119
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*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?	<u>50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2130548119
District RP	
Facility ID	
Application ID	

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.

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 7/27/23

email: [katherine.purvis@spurenergy.com](mailto:katherine.purvis@spurenergy.com)

Telephone: 575-441-8619

**OCD Only**

Received by: Shelly Wells

Date: 7/27/2023



Incident ID	nAPP2130548119
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine PurvisDate: 7/27/23email: [katherine.purvis@spurenergy.com](mailto:katherine.purvis@spurenergy.com)

Telephone: 575-441-8619

**OCD Only**Received by: Shelly Wells Date: 7/27/2023☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



Incident ID	nAPP2130548119
District RP	
Facility ID	
Application ID	

## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 7/27/23

email: [katherine.purvis@spurenergy.com](mailto:katherine.purvis@spurenergy.com)

Telephone: 575-441-8619

**OCD Only**

Received by: Shelly Wells

Date: 7/27/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 08/08/2023

Printed Name: Jocelyn Harimon

Title: Environmental Specialist





Appendix D:

Email Notification

Photographic Documentation



Tuesday, July 25, 2023 at 11:49:23 Mountain Daylight Time

---

**Subject:** Re: Rose 3H  
**Date:** Friday, July 21, 2023 at 4:10:47 PM Mountain Daylight Time  
**From:** Chris Jones  
**To:** Angel Pena, Bratcher, Michael, EMNRD, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD  
**Attachments:** image001.jpg

All,

We are currently working on closure reports for the Rose CTB. There are currently 2 open incidents that had the same footprint. When the original email was sent, it didn't list both incident numbers. I am just now catching this and apologize. The other incident that should've been listed is nAPP2130548119. Is there a possibility that you will accept this email in lieu of being missed on the first one? Sorry for the inconvenience.

Thank You,

Chris Jones  
Environmental Professional  
1601 N. Turner Ste. 500  
Hobbs, NM 88240  
[chris@paragonenvironmental.net](mailto:chris@paragonenvironmental.net)  
575-631-6977 cell



“We do not inherit the Earth  
from our ancestors; we borrow  
it from our children.”  
Chief Seattle

---

**From:** Angel Pena <[angel@paragonenvironmental.net](mailto:angel@paragonenvironmental.net)>  
**Date:** Tuesday, June 20, 2023 at 3:00 PM  
**To:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>, Chris Jones <[CHRIS@PARAGONENVIRONMENTAL.NET](mailto:CHRIS@PARAGONENVIRONMENTAL.NET)>, Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>, Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)>, Nobui, Jennifer, EMNRD <[Jennifer.Nobui@emnrd.nm.gov](mailto:Jennifer.Nobui@emnrd.nm.gov)>  
**Subject:** Rose 3H

All,

Good Afternoon ! This is to inform you all we will be collecting confirmation samples at the



Rose TB ,06-26-23 at 9:00 AM . If you have any questions or concerns, please let me know.

Incident number~NAPP2231259277

Thank You,

Angel Peña

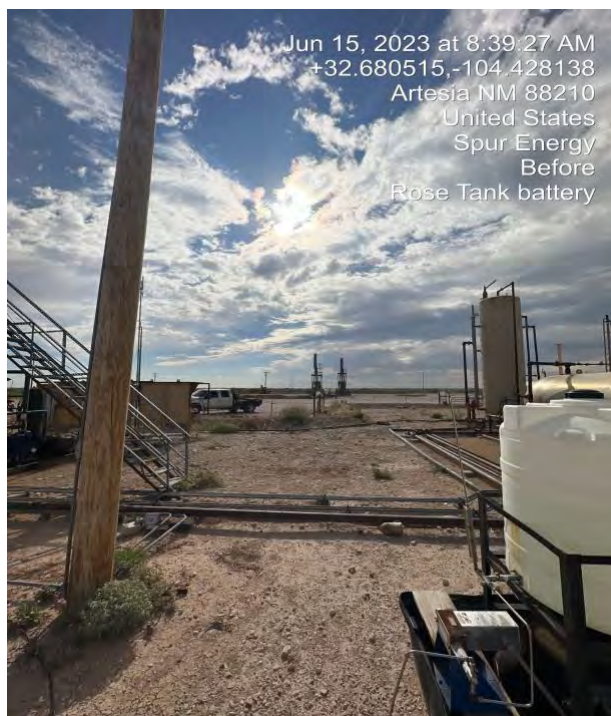
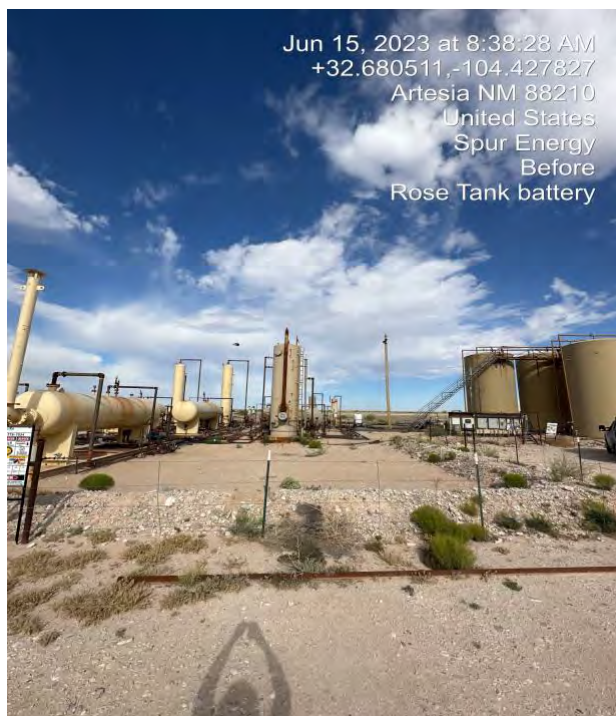
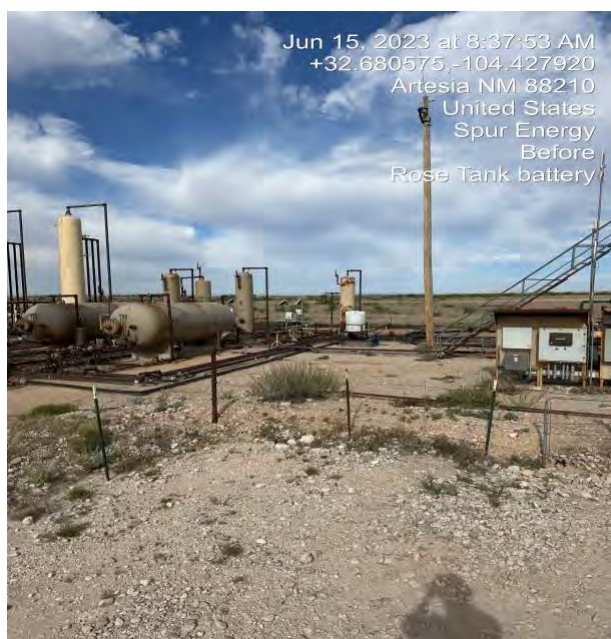
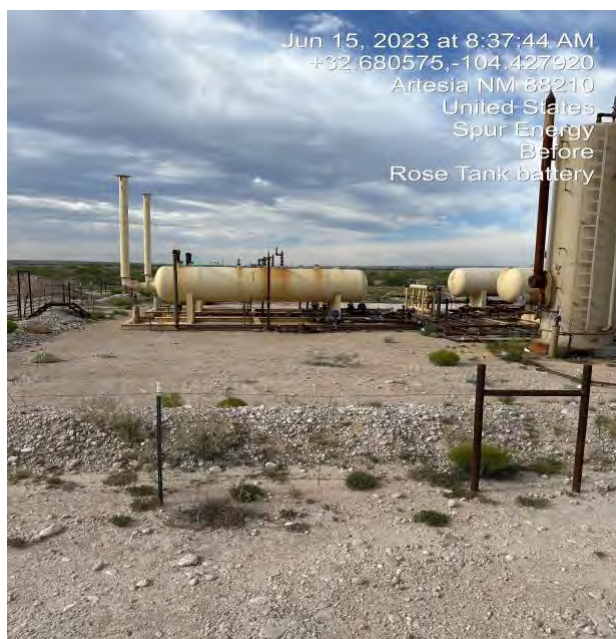
575-605-0773

Paragon Environmental LLC.



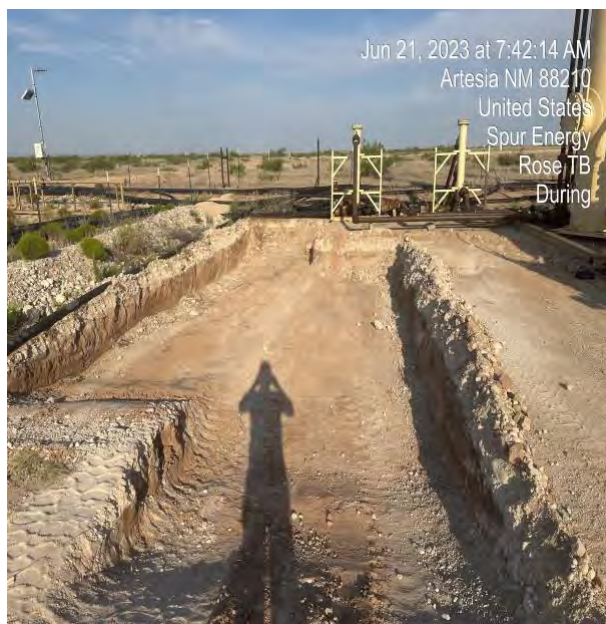
## Photographic Documentation

### Before Remediation



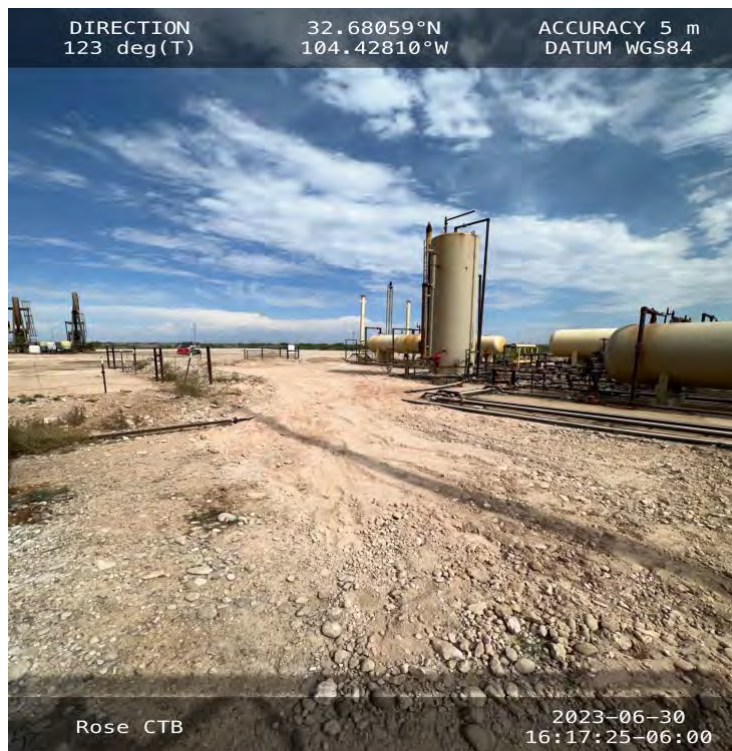


## During Remediation





Post Remediation







Appendix E:  
Laboratory Results





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

---

November 22, 2022

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: ROSE CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/18/22 13:16.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 0"-6" (H225460-01)**

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	11/21/2022	ND	2.01	100	2.00	0.739	
Toluene*	<0.050	0.050	11/21/2022	ND	2.12	106	2.00	0.0228	
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.09	105	2.00	0.100	
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.33	106	6.00	0.930	
Total BTX	<0.300	0.300	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 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	1310	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.9 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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

Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 1' (H225460-02)**

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	11/21/2022	ND	2.01	100	2.00	0.739	
Toluene*	<0.050	0.050	11/21/2022	ND	2.12	106	2.00	0.0228	
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.09	105	2.00	0.100	
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.33	106	6.00	0.930	
Total BTX	<0.300	0.300	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 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	1600	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.7 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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

Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 2' (H225460-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	2.01	100	2.00	0.739		
Toluene*	<0.050	0.050	11/21/2022	ND	2.12	106	2.00	0.0228		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.09	105	2.00	0.100		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.33	106	6.00	0.930		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 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	1440	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.0 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 3' (H225460-04)**

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	11/21/2022	ND	2.01	100	2.00	0.739		
Toluene*	<0.050	0.050	11/21/2022	ND	2.12	106	2.00	0.0228		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.09	105	2.00	0.100		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.33	106	6.00	0.930		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 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	944	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 4' (H225460-05)**

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	11/21/2022	ND	2.01	100	2.00	0.739	
Toluene*	<0.050	0.050	11/21/2022	ND	2.12	106	2.00	0.0228	
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.09	105	2.00	0.100	
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.33	106	6.00	0.930	
Total BTX	<0.300	0.300	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 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	1520	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.6 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 0"-6" (H225460-06)**

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	11/21/2022	ND	2.01	100	2.00	0.739	
Toluene*	<0.050	0.050	11/21/2022	ND	2.12	106	2.00	0.0228	
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	2.09	105	2.00	0.100	
Total Xylenes*	<0.150	0.150	11/21/2022	ND	6.33	106	6.00	0.930	
Total BTEx	<0.300	0.300	11/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 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	3720	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	14.7	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.2 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 1' (H225460-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	3600	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.4 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 2' (H225460-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	2840	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 0"-6" (H225460-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	5.87	97.8	6.00	5.83		
Total BTEX	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	2880	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.8 % 46.3-178

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**Analytical Results For:**

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

Received: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 1' (H225460-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	5.87	97.8	6.00	5.83		
Total BTEX	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	880	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.2 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 2' (H225460-11)**

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	11/22/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/22/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	1340	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.7 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 0"-6" (H225460-12)**

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	11/21/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	10500	16.0	11/21/2022	ND	432	108	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	11/18/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/18/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/18/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.8 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 1' (H225460-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	1460	16.0	11/21/2022	ND	432	108	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	11/19/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/19/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/19/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.3 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 2' (H225460-14)**

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	11/21/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	1550	16.0	11/21/2022	ND	416	104	400	3.77	QM-07	

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	11/19/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/19/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/19/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.9 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 3' (H225460-15)**

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	11/21/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/21/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/21/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/21/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/21/2022	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	1580	16.0	11/21/2022	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	11/19/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/19/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/19/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 5 0"-6" (H225460-16)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	1.93	96.6	2.00	7.52	
Toluene*	<0.050	0.050	11/22/2022	ND	2.11	105	2.00	7.62	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.96	97.8	2.00	4.87	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.87	97.8	6.00	5.83	
Total BTEx	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	16.0	16.0	11/21/2022	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	11/19/2022	ND	225	112	200	12.5	
DRO >C10-C28*	<10.0	10.0	11/19/2022	ND	205	103	200	0.619	
EXT DRO >C28-C36	<10.0	10.0	11/19/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.6 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 5 1' (H225460-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/22/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	<16.0	16.0	11/21/2022	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	11/21/2022	ND	196	97.9	200	3.95	
DRO >C10-C28*	<10.0	10.0	11/21/2022	ND	185	92.5	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	11/21/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.7 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 5 2' (H225460-18)**

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	11/22/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/22/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	<16.0	16.0	11/21/2022	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	11/21/2022	ND	196	97.9	200	3.95	
DRO >C10-C28*	<10.0	10.0	11/21/2022	ND	185	92.5	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	11/21/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.9 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 5 3' (H225460-19)**

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	11/22/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/22/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/22/2022	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	<16.0	16.0	11/21/2022	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	11/21/2022	ND	196	97.9	200	3.95	
DRO >C10-C28*	<10.0	10.0	11/21/2022	ND	185	92.5	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	11/21/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 6 0"-6" (H225460-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/22/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	<16.0	16.0	11/21/2022	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	11/21/2022	ND	196	97.9	200	3.95	
DRO >C10-C28*	<10.0	10.0	11/21/2022	ND	185	92.5	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	11/21/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.5 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 6 1' (H225460-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/22/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	11/21/2022	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	11/21/2022	ND	196	97.9	200	3.95	
DRO >C10-C28*	<10.0	10.0	11/21/2022	ND	185	92.5	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	11/21/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.9 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 0"-6" (H225460-22)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	1.93	96.6	2.00	7.52	
Toluene*	<0.050	0.050	11/22/2022	ND	2.11	105	2.00	7.62	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.96	97.8	2.00	4.87	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.87	97.8	6.00	5.83	
Total BTEx	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	3520	16.0	11/21/2022	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	11/21/2022	ND	196	97.9	200	3.95	
DRO >C10-C28*	125	10.0	11/21/2022	ND	185	92.5	200	2.79	
EXT DRO >C28-C36	31.0	10.0	11/21/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 1' (H225460-23)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	1.93	96.6	2.00	7.52	
Toluene*	<0.050	0.050	11/22/2022	ND	2.11	105	2.00	7.62	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.96	97.8	2.00	4.87	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.87	97.8	6.00	5.83	
Total BTEx	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	2720	16.0	11/21/2022	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	11/21/2022	ND	196	97.9	200	3.95	
DRO >C10-C28*	23.4	10.0	11/21/2022	ND	185	92.5	200	2.79	
EXT DRO >C28-C36	<10.0	10.0	11/21/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

Cardinal Laboratories

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Mike Snyder For 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: 11/18/2022  
Reported: 11/22/2022  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 11/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 2' (H225460-24)**

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	11/22/2022	ND	1.93	96.6	2.00	7.52		
Toluene*	<0.050	0.050	11/22/2022	ND	2.11	105	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.96	97.8	2.00	4.87		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.87	97.8	6.00	5.83		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	2600	16.0	11/21/2022	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	11/21/2022	ND	196	97.9	200	3.95	
DRO >C10-C28*	228	10.0	11/21/2022	ND	185	92.5	200	2.79	
EXT DRO >C28-C36	58.3	10.0	11/21/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.8 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





---

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

---

### 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 "Mike Snyder".

---

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental  
Project Manager: Cason Spurlock

Address: 5002 Carriage Rd  
City: Hobbs State: NM Zip: 88242

Phone #: 575-631-6977 Fax #:

Project #: Project Owner: Spur

Project Name: Rose CTB

Project Location: Eddy, NM

Sampler Name: Angel Pena

FOR LAB USE ONLY

Lab I.D. Sample I.D.

HA35460

5-1 0'-6"

5-1 1'

5-1 2'

5-1 3'

5-1 4'

5-2 0'-6"

5-2 1'

5-2 2'

5-3 0'-6"

5-3 1'

5-3 2'

5-3 3'

5-3 4'

5-3 5'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE 11/1/15

TIME

BTEX

Chlorides

TPH EXT

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Relinquished By: [Signature] Date: 11/1/15 Received By: [Signature] Date: 11/1/15

Relinquished By: [Signature] Date: 11/1/15 Received By: [Signature] Date: 11/1/15

Delivered By: (Circle One) -0.8: c.o.u.c. -1.4: #113

Sample Condition: Cool ☒ Intact ☒ Yes ☐ No ☐ Yes ☐ No

CHECKED BY: [Signature] REMARKS: Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:

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





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental		P.O. #:		BILL TO		ANALYSIS REQUEST											
Project Manager: Cason Spunkoff		Company:															
Address: 5002 Carriage Rd		Attn:															
City: Hobbs		Address:															
Phone #: 575-631-6977		City:															
Fax #:		State:															
Project #:		Zip:															
Project Name:		Phone #:															
Project Location:		Fax #:															
Sampler Name:		PRESERV		SAMPLING													
FOR LAB USE ONLY																	
Lab I.D.		Sample I.D.		DATE		TIME											
113254140		2'		11/15				BTEX									
11		5-3		C				Chlorides									
12		5-4		1'				TPH EXT									
13		5-4		2'													
14		5-4		3'													
15		5-4		0'-6"													
16		5-5		1'-6"													
17		5-5		2'													
18		5-5		3'													
19		5-5		0'-6"													
20		5-6															
<p>PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.</p>																	
Relinquished By:		Date: 11/15		Received By: J. Spunkoff		REMARKS:											
Time: 1:16																	
Relinquished By:		Date:		Received By:													
Time:																	
Delivered By: (Circle One) -0.8L C.D. 101		Sample Condition		CHECKED BY: J. Spunkoff													
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>															
Sampler - UPS - Bus - Other: -14L #113		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>															

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





CARDINAL  
Laboratories

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:** Cason Spurlock  
**Address:** 5002 Carriage Rd  
**City:** Hobbs  
**Phone #:** 575-631-6977  
**Project #:**  
**Project Name:**  
**Project Location:**  
**Sample Name:**

**P.O. #:**  
**Company:**  
**Attn:**  
**Address:**  
**City:**  
**State:** NM **Zip:** 88242  
**Phone #:**  
**Project Owner:**

**FOR LAB USE ONLY**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	Chlorides	TPH	EXT	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							ICE / COOL
11034100																	
21	S-6	1'															
22	S-7	0'-6"															
23	S-7	1'															
24	S-7	2'															

**Relinquished By:** *[Signature]*  
**Relinquished By:** *[Signature]*  
**Relinquished By:** *[Signature]*

**Date:** 11/13 **Received By:** *[Signature]*  
**Time:** 1:15 **Received By:** *[Signature]*

**Date:** 11/13 **Received By:** *[Signature]*  
**Time:** 1:15 **Received By:** *[Signature]*

**Delivered By: (Circle One)** - O.S. *[Signature]* **Sample Condition**  
Cool ☒ Intact ☒  
Yes ☒ No ☒

**Sample - UPS - Bus - Other:** - 14#113 *[Signature]*

**REMARKS:**

**Phone Result:** ☐ Yes ☐ No **Add'l Phone #:**  
**Fax Result:** ☐ Yes ☐ No **Add'l Fax #:**





---

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

---

June 28, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: ROSE CTB

Enclosed are the results of analyses for samples received by the laboratory on 06/26/23 16:40.

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

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

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

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

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1 4'	H233304-01	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 2 4'	H233304-02	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 3 4'	H233304-03	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 4 4'	H233304-04	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 5 4'	H233304-05	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 6 4'	H233304-06	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 7 4'	H233304-07	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 8 4'	H233304-08	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 9 4'	H233304-09	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 10 4'	H233304-10	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 11 4'	H233304-11	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 12 4'	H233304-12	Soil	26-Jun-23 00:00	26-Jun-23 16:40
S - 13 4'	H233304-13	Soil	26-Jun-23 00:00	26-Jun-23 16:40
SSW - 1 4'	H233304-14	Soil	26-Jun-23 00:00	26-Jun-23 16:40
SSW - 2 4'	H233304-15	Soil	26-Jun-23 00:00	26-Jun-23 16:40
SSW - 3 4'	H233304-16	Soil	26-Jun-23 00:00	26-Jun-23 16:40
SSW - 4 4'	H233304-17	Soil	26-Jun-23 00:00	26-Jun-23 16:40
ESW - 1 4'	H233304-18	Soil	26-Jun-23 00:00	26-Jun-23 16:40
ESW - 2 4'	H233304-19	Soil	26-Jun-23 00:00	26-Jun-23 16:40
ESW - 3 4'	H233304-20	Soil	26-Jun-23 00:00	26-Jun-23 16:40
ESW - 4 4'	H233304-21	Soil	26-Jun-23 00:00	26-Jun-23 16:40
NSW - 1 4'	H233304-22	Soil	26-Jun-23 00:00	26-Jun-23 16:40
NSW - 2 4'	H233304-23	Soil	26-Jun-23 00:00	26-Jun-23 16:40
NSW - 3 4'	H233304-24	Soil	26-Jun-23 00:00	26-Jun-23 16:40
NSW - 4 4'	H233304-25	Soil	26-Jun-23 00:00	26-Jun-23 16:40
WSW - 1 4'	H233304-26	Soil	26-Jun-23 00:00	26-Jun-23 16:40
WSW - 2 4'	H233304-27	Soil	26-Jun-23 00:00	26-Jun-23 16:40

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:Reported:  
28-Jun-23 11:53

WSW - 3 4'	H233304-28	Soil	26-Jun-23 00:00	26-Jun-23 16:40
WSW - 4 4'	H233304-29	Soil	26-Jun-23 00:00	26-Jun-23 16:40

06/28/23 - Wrong project name was logged in for the work order. This is the revised report with the corrected project name and will replace the report sent on 06/27/23.

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

Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**S - 1 4'**  
**H233304-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	720		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 3062701 MS 27-Jun-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane 97.9 % 48.2-134 3062704 MS 27-Jun-23 8015B

Surrogate: 1-Chlorooctadecane 107 % 49.1-148 3062704 MS 27-Jun-23 8015B

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

S - 2 4'

H233304-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		71.5-134	3062701	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			101 %		48.2-134	3062704	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		49.1-148	3062704	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**S - 3 4'****H233304-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>336</b>		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	3062701	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.3 %		48.2-134	3062704	MS	27-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.7 %		49.1-148	3062704	MS	27-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

S - 4 4'

H233304-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3062701	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			107 %	48.2-134		3062704	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			118 %	49.1-148		3062704	MS	27-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**S - 5 4'****H233304-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>656</b>		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		106 %		71.5-134	3062701	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane		110 %		48.2-134	3062704	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane		118 %		49.1-148	3062704	MS	27-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**S - 6 4'****H233304-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	71.5-134	3062701	MS	27-Jun-23	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B

Surrogate: 1-Chlorooctane	89.7 %	48.2-134	3062704	MS	27-Jun-23	8015B
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Surrogate: 1-Chlorooctadecane	97.2 %	49.1-148	3062704	MS	27-Jun-23	8015B
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

S - 7 4'

H233304-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		71.5-134	3062701	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			94.4 %		48.2-134	3062704	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		49.1-148	3062704	MS	27-Jun-23	8015B	
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Cardinal Laboratories

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**S - 8 4'****H233304-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		3062701	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062704	MS	27-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %	48.2-134		3062704	MS	27-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %	49.1-148		3062704	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**S - 9 4'****H233304-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	71.5-134	3062701	MS	27-Jun-23	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B

Surrogate: 1-Chlorooctane	112 %	48.2-134	3062707	MS	27-Jun-23	8015B
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Surrogate: 1-Chlorooctadecane	122 %	49.1-148	3062707	MS	27-Jun-23	8015B
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**S - 10 4'**  
**H233304-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3062701	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			113 %	48.2-134		3062707	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			124 %	49.1-148		3062707	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**S - 11 4'**  
**H233304-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3062701	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>15.3</b>		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			100 %	48.2-134		3062707	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			112 %	49.1-148		3062707	MS	27-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**S - 12 4'**  
**H233304-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062701	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062701	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3062701	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			106 %	48.2-134		3062707	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			116 %	49.1-148		3062707	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**S - 13 4'**  
**H233304-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	QM-07
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	QM-07
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 3062702 MS 27-Jun-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane 97.8 % 48.2-134 3062707 MS 27-Jun-23 8015B

Surrogate: 1-Chlorooctadecane 106 % 49.1-148 3062707 MS 27-Jun-23 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**SSW - 1 4'**  
**H233304-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	71.5-134	3062702	MS	27-Jun-23	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B

Surrogate: 1-Chlorooctane	98.0 %	48.2-134	3062707	MS	27-Jun-23	8015B
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Surrogate: 1-Chlorooctadecane	107 %	49.1-148	3062707	MS	27-Jun-23	8015B
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**SSW - 2 4'**  
**H233304-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		3062702	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			101 %	48.2-134		3062707	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	49.1-148		3062707	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**SSW - 3 4'**  
**H233304-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>432</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3062702	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			96.1 %	48.2-134		3062707	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	49.1-148		3062707	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**SSW - 4 4'**  
**H233304-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>448</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		3062702	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			117 %	48.2-134		3062708	MS	27-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			114 %	49.1-148		3062708	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**ESW - 1 4'**  
**H233304-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>864</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		3062702	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			114 %	48.2-134		3062708	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	49.1-148		3062708	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**ESW - 2 4'**  
**H233304-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	71.5-134		3062702	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			120 %	48.2-134		3062708	MS	27-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			116 %	49.1-148		3062708	MS	27-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**ESW - 3 4'**  
**H233304-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3062702	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			124 %	48.2-134		3062708	MS	27-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			118 %	49.1-148		3062708	MS	27-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**ESW - 4 4'**  
**H233304-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		3062702	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			110 %	48.2-134		3062708	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			108 %	49.1-148		3062708	MS	27-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**NSW - 1 4'**  
**H233304-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>496</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3062702	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			109 %	48.2-134		3062708	MS	27-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %	49.1-148		3062708	MS	27-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**NSW - 2 4'**  
**H233304-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		3062702	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			117 %	48.2-134		3062708	MS	27-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			114 %	49.1-148		3062708	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

NSW - 3 4'  
H233304-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	288		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062702	MS	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062702	MS	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %		71.5-134	3062702	MS	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062708	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			122 %		48.2-134	3062708	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			118 %		49.1-148	3062708	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

NSW - 4 4'  
H233304-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062703	JH/	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		3062703	JH/	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane			122 %	48.2-134		3062709	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			128 %	49.1-148		3062709	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**WSW - 1 4'**  
**H233304-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>352</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062703	JH/	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134 3062703 JH/ 27-Jun-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane 130 % 48.2-134 3062709 MS 27-Jun-23 8015B

Surrogate: 1-Chlorooctadecane 136 % 49.1-148 3062709 MS 27-Jun-23 8015B

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**WSW - 2 4'**  
**H233304-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>752</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3062703	JH/	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	115 %	71.5-134	3062703	JH/	27-Jun-23	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B

Surrogate: 1-Chlorooctane	123 %	48.2-134	3062709	MS	27-Jun-23	8015B
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Surrogate: 1-Chlorooctadecane	128 %	49.1-148	3062709	MS	27-Jun-23	8015B
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**WSW - 3 4'**  
**H233304-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3062703	JH/	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	114 %	71.5-134	3062703	JH/	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane	115 %	48.2-134	3062709	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane	120 %	49.1-148	3062709	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**WSW - 4 4'**  
**H233304-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3062703	JH/	27-Jun-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3062703	JH/	27-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		114 %		71.5-134	3062703	JH/	27-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3062709	MS	27-Jun-23	8015B	

Surrogate: 1-Chlorooctane		106 %		48.2-134	3062709	MS	27-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane		111 %		49.1-148	3062709	MS	27-Jun-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3062711 - 1:4 DI Water****Blank (3062711-BLK1)**

Prepared &amp; Analyzed: 27-Jun-23

Chloride	ND	16.0	mg/kg							
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**LCS (3062711-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (3062711-BSD1)**

Prepared &amp; Analyzed: 27-Jun-23

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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**Batch 3062713 - 1:4 DI Water****Blank (3062713-BLK1)**

Prepared &amp; Analyzed: 27-Jun-23

Chloride	ND	16.0	mg/kg							
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**LCS (3062713-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (3062713-BSD1)**

Prepared &amp; Analyzed: 27-Jun-23

Chloride	480	16.0	mg/kg	400		120	80-120	10.5	20	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3062701 - Volatiles****Blank (3062701-BLK1)**

Prepared &amp; Analyzed: 27-Jun-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0523		mg/kg	0.0500		105	71.5-134			

**LCS (3062701-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

Benzene	2.07	0.050	mg/kg	2.00		103	82.8-130			
Toluene	2.03	0.050	mg/kg	2.00		102	86-128			
Ethylbenzene	1.98	0.050	mg/kg	2.00		98.9	85.9-128			
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89-129			
o-Xylene	1.94	0.050	mg/kg	2.00		96.8	86.1-125			
Total Xylenes	5.94	0.150	mg/kg	6.00		99.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0492		mg/kg	0.0500		98.4	71.5-134			

**LCS Dup (3062701-BSD1)**

Prepared &amp; Analyzed: 27-Jun-23

Benzene	2.08	0.050	mg/kg	2.00		104	82.8-130	0.803	15.8	
Toluene	2.04	0.050	mg/kg	2.00		102	86-128	0.527	15.9	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	85.9-128	2.15	16	
m,p-Xylene	4.10	0.100	mg/kg	4.00		102	89-129	2.29	16.2	
o-Xylene	2.00	0.050	mg/kg	2.00		99.8	86.1-125	3.08	16.7	
Total Xylenes	6.09	0.150	mg/kg	6.00		102	88.2-128	2.55	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.4	71.5-134			

**Batch 3062702 - Volatiles****Blank (3062702-BLK1)**

Prepared &amp; Analyzed: 27-Jun-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3062702 - Volatiles****Blank (3062702-BLK1)**

Prepared &amp; Analyzed: 27-Jun-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500		107	71.5-134			

**LCS (3062702-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

Benzene	2.26	0.050	mg/kg	2.00		113	82.8-130			
Toluene	2.23	0.050	mg/kg	2.00		111	86-128			
Ethylbenzene	2.11	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.46	0.100	mg/kg	4.00		112	89-129			
o-Xylene	2.10	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.56	0.150	mg/kg	6.00		109	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

**LCS Dup (3062702-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

Benzene	2.18	0.050	mg/kg	2.00		109	82.8-130	3.47	15.8	
Toluene	2.16	0.050	mg/kg	2.00		108	86-128	3.34	15.9	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	85.9-128	5.06	16	
m,p-Xylene	4.21	0.100	mg/kg	4.00		105	89-129	5.66	16.2	
o-Xylene	1.99	0.050	mg/kg	2.00		99.4	86.1-125	5.24	16.7	
Total Xylenes	6.20	0.150	mg/kg	6.00		103	88.2-128	5.53	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	71.5-134			

**Batch 3062703 - Volatiles****Blank (3062703-BLK1)**

Prepared &amp; Analyzed: 27-Jun-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0561		mg/kg	0.0500		112	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3062703 - Volatiles****LCS (3062703-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

Benzene	2.09	0.050	mg/kg	2.00		105	82.8-130		
Toluene	2.02	0.050	mg/kg	2.00		101	86-128		
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128		
m,p-Xylene	4.37	0.100	mg/kg	4.00		109	89-129		
o-Xylene	2.21	0.050	mg/kg	2.00		111	86.1-125		
Total Xylenes	6.58	0.150	mg/kg	6.00		110	88.2-128		
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500		104	71.5-134		

**LCS Dup (3062703-BSD1)**

Prepared &amp; Analyzed: 27-Jun-23

Benzene	2.03	0.050	mg/kg	2.00		102	82.8-130	2.93	15.8
Toluene	1.93	0.050	mg/kg	2.00		96.3	86-128	4.71	15.9
Ethylbenzene	2.07	0.050	mg/kg	2.00		104	85.9-128	4.16	16
m,p-Xylene	4.17	0.100	mg/kg	4.00		104	89-129	4.58	16.2
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125	6.14	16.7
Total Xylenes	6.25	0.150	mg/kg	6.00		104	88.2-128	5.10	16.3
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134		

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3062704 - General Prep - Organics****Blank (3062704-BLK1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.3		mg/kg	49.6		89.4	48.2-134			
Surrogate: 1-Chlorooctadecane	49.2		mg/kg	50.0		98.5	49.1-148			

**LCS (3062704-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	197	10.0	mg/kg	200		98.5	66.4-123			
DRO >C10-C28	198	10.0	mg/kg	200		98.8	66.5-118			
Total TPH C6-C28	395	10.0	mg/kg	400		98.6	77.6-123			
Surrogate: 1-Chlorooctane	48.9		mg/kg	49.6		98.7	48.2-134			
Surrogate: 1-Chlorooctadecane	50.5		mg/kg	50.0		101	49.1-148			

**LCS Dup (3062704-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	229	10.0	mg/kg	200		115	66.4-123	15.1	17.7	
DRO >C10-C28	222	10.0	mg/kg	200		111	66.5-118	11.6	21	
Total TPH C6-C28	451	10.0	mg/kg	400		113	77.6-123	13.4	18.5	
Surrogate: 1-Chlorooctane	55.8		mg/kg	49.6		113	48.2-134			
Surrogate: 1-Chlorooctadecane	64.7		mg/kg	50.0		129	49.1-148			

**Batch 3062707 - General Prep - Organics****Blank (3062707-BLK1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.1		mg/kg	49.6		87.0	48.2-134			
Surrogate: 1-Chlorooctadecane	47.6		mg/kg	50.0		95.1	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3062707 - General Prep - Organics****LCS (3062707-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	177	10.0	mg/kg	200		88.7	66.4-123		
DRO >C10-C28	181	10.0	mg/kg	200		90.3	66.5-118		
Total TPH C6-C28	358	10.0	mg/kg	400		89.5	77.6-123		
Surrogate: 1-Chlorooctane	49.1		mg/kg	49.6		99.1	48.2-134		
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	49.1-148		

**LCS Dup (3062707-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	171	10.0	mg/kg	200		85.3	66.4-123	3.89	17.7
DRO >C10-C28	175	10.0	mg/kg	200		87.5	66.5-118	3.16	21
Total TPH C6-C28	346	10.0	mg/kg	400		86.4	77.6-123	3.52	18.5
Surrogate: 1-Chlorooctane	46.9		mg/kg	49.6		94.6	48.2-134		
Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0		99.6	49.1-148		

**Batch 3062708 - General Prep - Organics****Blank (3062708-BLK1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	52.9		mg/kg	49.6		107	48.2-134		
Surrogate: 1-Chlorooctadecane	52.4		mg/kg	50.0		105	49.1-148		

**LCS (3062708-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	209	10.0	mg/kg	200		105	66.4-123		
DRO >C10-C28	204	10.0	mg/kg	200		102	66.5-118		
Total TPH C6-C28	413	10.0	mg/kg	400		103	77.6-123		
Surrogate: 1-Chlorooctane	59.0		mg/kg	49.6		119	48.2-134		
Surrogate: 1-Chlorooctadecane	56.1		mg/kg	50.0		112	49.1-148		

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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: ROSE CTB  
Project Number: SPUR  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
28-Jun-23 11:53

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3062708 - General Prep - Organics****LCS Dup (3062708-BSD1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	215	10.0	mg/kg	200		107	66.4-123	2.63	17.7	
DRO >C10-C28	204	10.0	mg/kg	200		102	66.5-118	0.349	21	
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123	1.51	18.5	
Surrogate: 1-Chlorooctane	60.6		mg/kg	49.6		122	48.2-134			
Surrogate: 1-Chlorooctadecane	56.7		mg/kg	50.0		113	49.1-148			

**Batch 3062709 - General Prep - Organics****Blank (3062709-BLK1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	55.2		mg/kg	49.6		111	48.2-134			
Surrogate: 1-Chlorooctadecane	58.2		mg/kg	50.0		116	49.1-148			

**LCS (3062709-BS1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	198	10.0	mg/kg	200		99.0	66.4-123			
DRO >C10-C28	210	10.0	mg/kg	200		105	66.5-118			
Total TPH C6-C28	408	10.0	mg/kg	400		102	77.6-123			
Surrogate: 1-Chlorooctane	61.4		mg/kg	49.6		124	48.2-134			
Surrogate: 1-Chlorooctadecane	62.7		mg/kg	50.0		125	49.1-148			

**LCS Dup (3062709-BSD1)**

Prepared &amp; Analyzed: 27-Jun-23

GRO C6-C10	202	10.0	mg/kg	200		101	66.4-123	2.13	17.7	
DRO >C10-C28	211	10.0	mg/kg	200		105	66.5-118	0.383	21	
Total TPH C6-C28	413	10.0	mg/kg	400		103	77.6-123	1.24	18.5	
Surrogate: 1-Chlorooctane	62.4		mg/kg	49.6		126	48.2-134			
Surrogate: 1-Chlorooctadecane	63.9		mg/kg	50.0		128	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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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 "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

183

<b>Company Name:</b> <i>Parsons Environmental</i>		<b>P.O. #:</b>		<b>BILL TO</b>													
<b>Project Manager:</b> <i>Chris Jones</i>				<b>ANALYSIS REQUEST</b>													
<b>Address:</b> <i>1601 N. Turner</i>		<b>Company:</b> <i>SPUR</i>															
<b>City:</b> <i>Hobbs</i>		<b>Attn:</b>															
<b>State:</b> <i>NM</i>		<b>Address:</b>															
<b>Zip:</b> <i>88240</i>																	
<b>Phone #:</b> <i>575-691-6977</i>		<b>City:</b>															
<b>Fax #:</b>		<b>State:</b>															
<b>Project #:</b>		<b>Zip:</b>															
<b>Project Name:</b> <i>Rock TB</i>																	
<b>Project Location:</b> <i>Rural CD 119</i>																	
<b>Sampler Name:</b> <i>Ariel S. Jones</i>		<b>Phone #:</b>															
<b>Fax #:</b>																	
<b>FOR LAB USE ONLY</b>																	
<b>Lab I.D.</b>																	
<b>Sample I.D.</b>																	
<i>H233304</i>																	
<i>1 5-1 4'</i>																	
<i>2 5-2 4'</i>																	
<i>3 5-3 4'</i>																	
<i>4 5-4 4'</i>																	
<i>5 5-5 4'</i>																	
<i>6 5-6 4'</i>																	
<i>7 5-7 4'</i>																	
<i>8 5-8 4'</i>																	
<i>9 5-9 4'</i>																	
<i>10 5-10 4'</i>																	
<b>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors, arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</b>																	
<b>Relinquished By:</b> <i>[Signature]</i>		<b>Date:</b> <i>6-23</i>		<b>Received By:</b> <i>[Signature]</i>		<b>Date:</b> <i>6-23</i>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:					<b>All Results are emailed. Please provide Email address:</b>				
<b>Time:</b> <i>16:40</i>				<b>Time:</b>													
<b>Refiniquished By:</b>		<b>Date:</b>		<b>Received By:</b>		<b>Date:</b>		<b>REMARKS:</b>									
<b>Time:</b>				<b>Time:</b>													
<b>Delivered By: (Circle One)</b>		<b>Observed Temp. °C</b> <i>29</i>		<b>Sample Condition</b>		<b>CHECKED BY:</b> <i>(Initials)</i>		<b>Turnaround Time:</b>		<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b>		<b>Bacteria (only) Sample Condition</b>		<b>Observed Temp. °C</b>			
<b>Sampler - UPS - Bus - Other:</b>		<b>Corrected Temp. °C</b> <i>23</i>		<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>AB</i>		<b>Thermometer ID #113</b>		<b>Correction Factor -0.6°C</b>		<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Corrected Temp. °C</b>			
<b>FORM 006 R 3.3 07/18/22</b>																	

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





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2013

Company Name: <u>Cardinal</u>		P.O. #:		BILL TO										ANALYSIS REQUEST													
Project Manager: <u>Johnson</u>		Company:																									
Address:		Attn:																									
City:		Address:																									
Phone #:		City:																									
Project #:		State:																									
Project Name:		Zip:																									
Project Location:		Phone #:																									
Sampler Name:		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.																									
<u>H233304</u>																											
11 5-11 4'																											
12 5-12 4'																											
13 5-13 4'																											
14 5-14 4'																											
15 5-15 4'																											
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17 5-17 4'																											
18 5-18 4'																											
19 5-19 4'																											
20 5-20 4'																											
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																											
Relinquished By: <u>[Signature]</u>		Date: <u>6-26-23</u>		Received By: <u>[Signature]</u>		Date: <u>6-26</u>																					
Time: <u>1440</u>																											
Relinquished By: <u>[Signature]</u>		Date: <u>6-26-23</u>		Received By: <u>[Signature]</u>		Date: <u>6-26</u>																					
Time: <u>1440</u>																											
Delivered By: (Circle One)		Observed Temp. °C <u>2.9</u>		Sample Condition		CHECKED BY: (Initials)																					
Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C <u>2.3</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																							
Sampler - UPS - Bus - Other:																											
Turnaround Time:		Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only) <input type="checkbox"/>		Sample Condition																					
Thermometer ID #113		Corrected Temp. °C <u>2.9</u>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C																					
Correction Factor -0.8°C				Corrected Temp. °C																							

FORM-008-R-3-3-07/10/22

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





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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: <u>Altagor</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager:		Company:					
Address:		Attn:					
City: State: Zip:		Address:					
Phone #: Fax #:		City: State: Zip:					
Project #: Project Owner:		Phone #: Fax #:					
Project Name:		State: Zip:					
Project Location:		Phone #: Fax #:					
Sampler Name:		P.O. #:					
FOR LAB USE ONLY		P.O. #:					
Lab I.D. Sample I.D.		P.O. #:					
<u>H03384</u>		P.O. #:					
<u>ESW-4</u>		P.O. #:					
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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June 29, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: ROSE CTB

Enclosed are the results of analyses for samples received by the laboratory on 06/28/23 12:20.

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: 06/28/2023  
Reported: 06/29/2023  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 06/28/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1 4' (H233339-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/29/2023	ND	432	108	400	0.00	

**Sample ID: S - 2 4' (H233339-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/29/2023	ND	432	108	400	0.00	

**Sample ID: S - 3 4' (H233339-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/29/2023	ND	432	108	400	0.00	

**Sample ID: ESW - 1 4' (H233339-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/29/2023	ND	432	108	400	0.00	

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: 06/28/2023  
Reported: 06/29/2023  
Project Name: ROSE CTB  
Project Number: SPUR  
Project Location: 32.680200-104.427700

Sampling Date: 06/28/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: WSW - 2 4' (H233339-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/29/2023	ND	432	108	400	0.00		

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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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Celey D. Keene, Lab Director/Quality Manager





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

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

CONDITIONS  
  
Action 245121

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 245121
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	8/8/2023