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 2 & 3 Battery
API No. 30-015-45114
GPS: Latitude 32.680508 Longitude -104.427371
UL "D", Sec. 07, T19S, R26E
Eddy County, NM
NMOCD Ref. No. NAPP2231259277

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment and conduct remediation activities for the release at the site known as the Rose North CTB (Rose). The spill was tied to the #2 & #3 wells coming into the CTB. Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	**Volume of Release:**	15 bbls
		Volume Recovered:	10 bbls
Source of Release:	Valve	**Date of Release:**	10/14/22
Was Immediate Notice Given?	No	**If, Yes, to Whom?**	N/A
Was a Watercourse Reached?	No	**If Yes, Volume Impacting Watercourse:**	N/A
Surface Owner:	Federal	**Mineral Owner:**	Federal
A 4" ball valve on a water line from the separators that discharges to the water tank developed a pinhole due to internal corrosion causing a 15-barrel spill.			

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

A previous spill occurred at this battery. This spill followed the same path as the previous spill, the initial assessment data was used in conjunction with this incident for remedial activities.

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 containment 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.

REMEDIATION 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 on June 26, 2023. 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, NAPP2231259277, 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

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

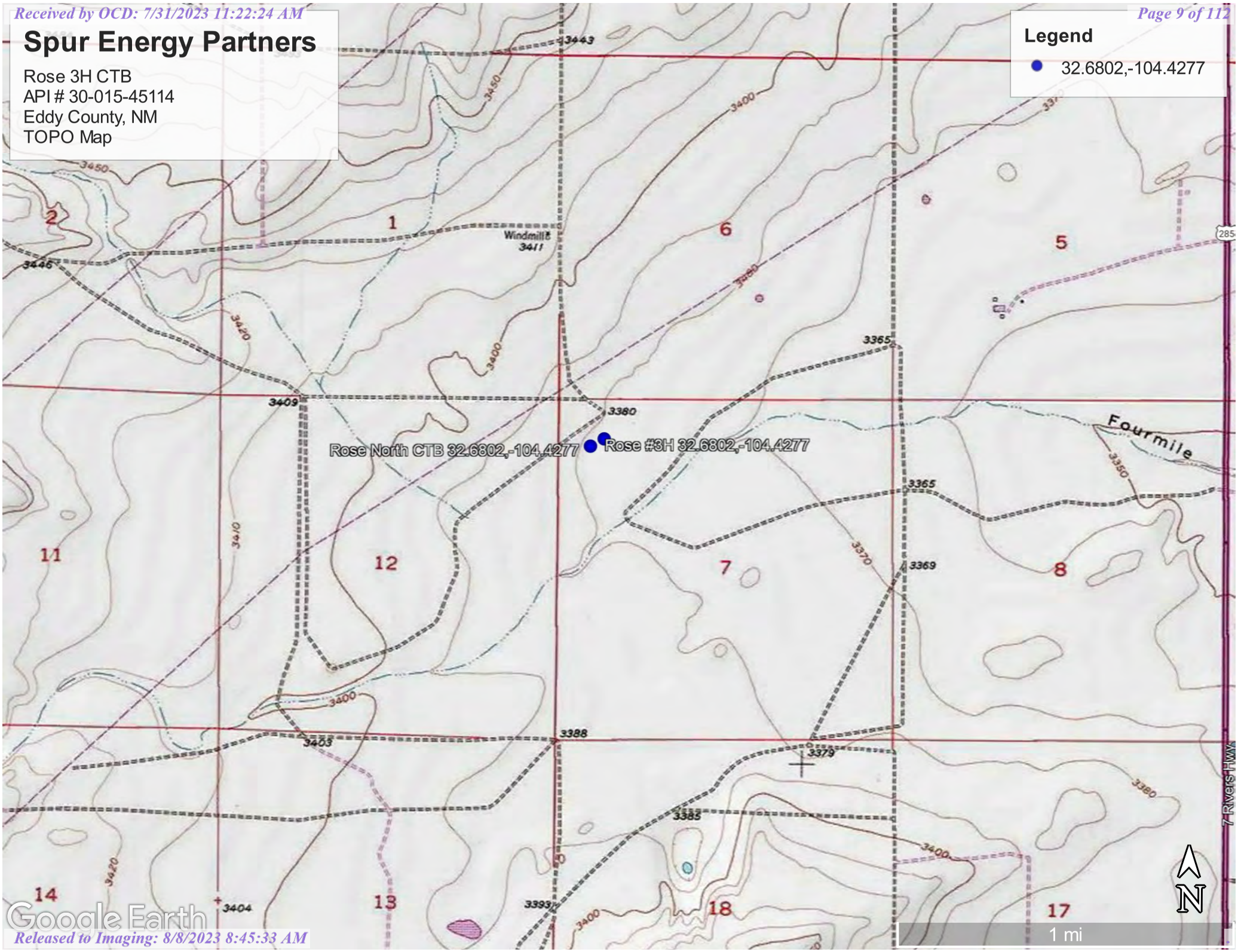
Rose #3 Battery
API# 30-015-45114
Eddy County, NM
Site Map

Spur Energy Partners

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

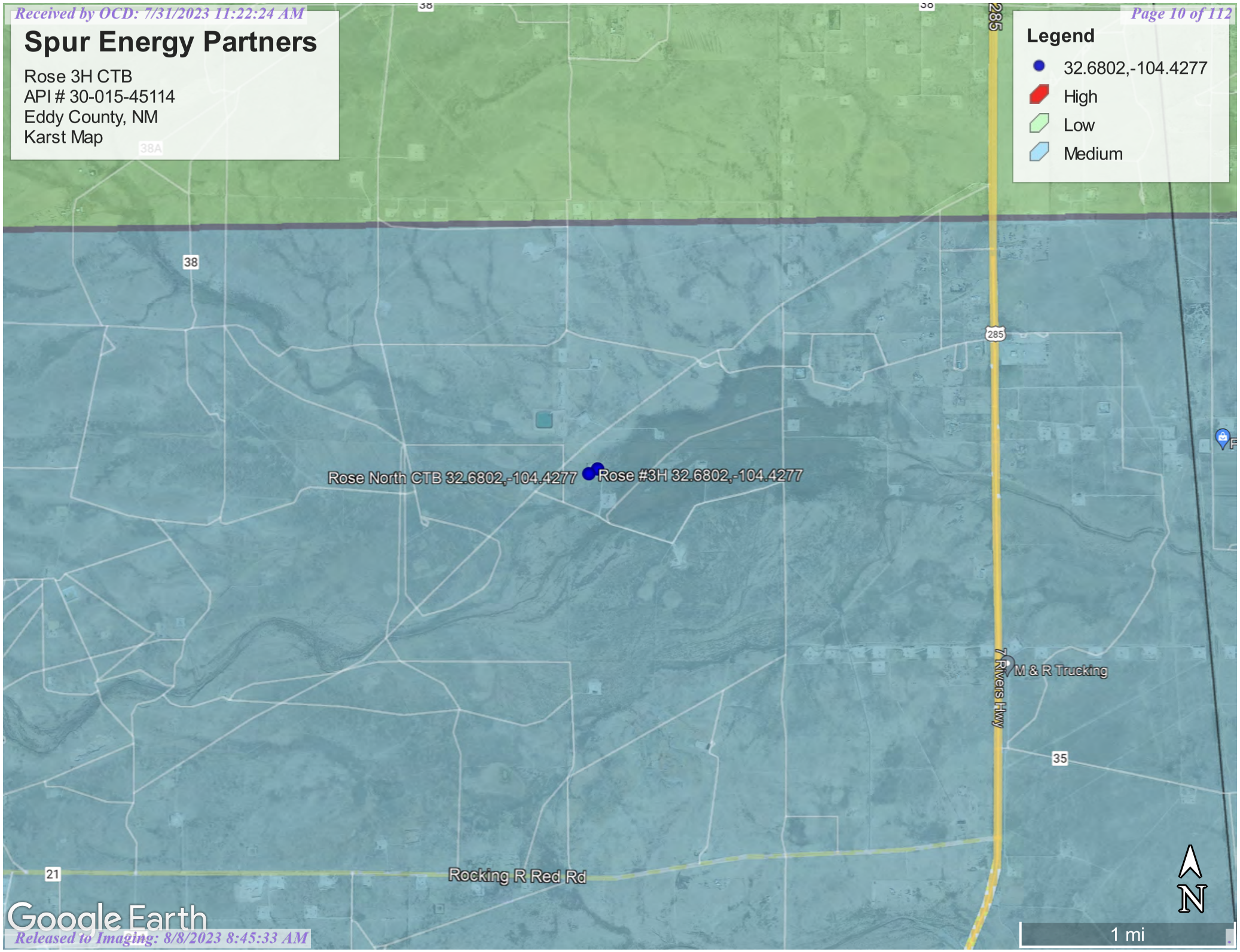
Legend

● 32.6802,-104.4277



Spur Energy Partners

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

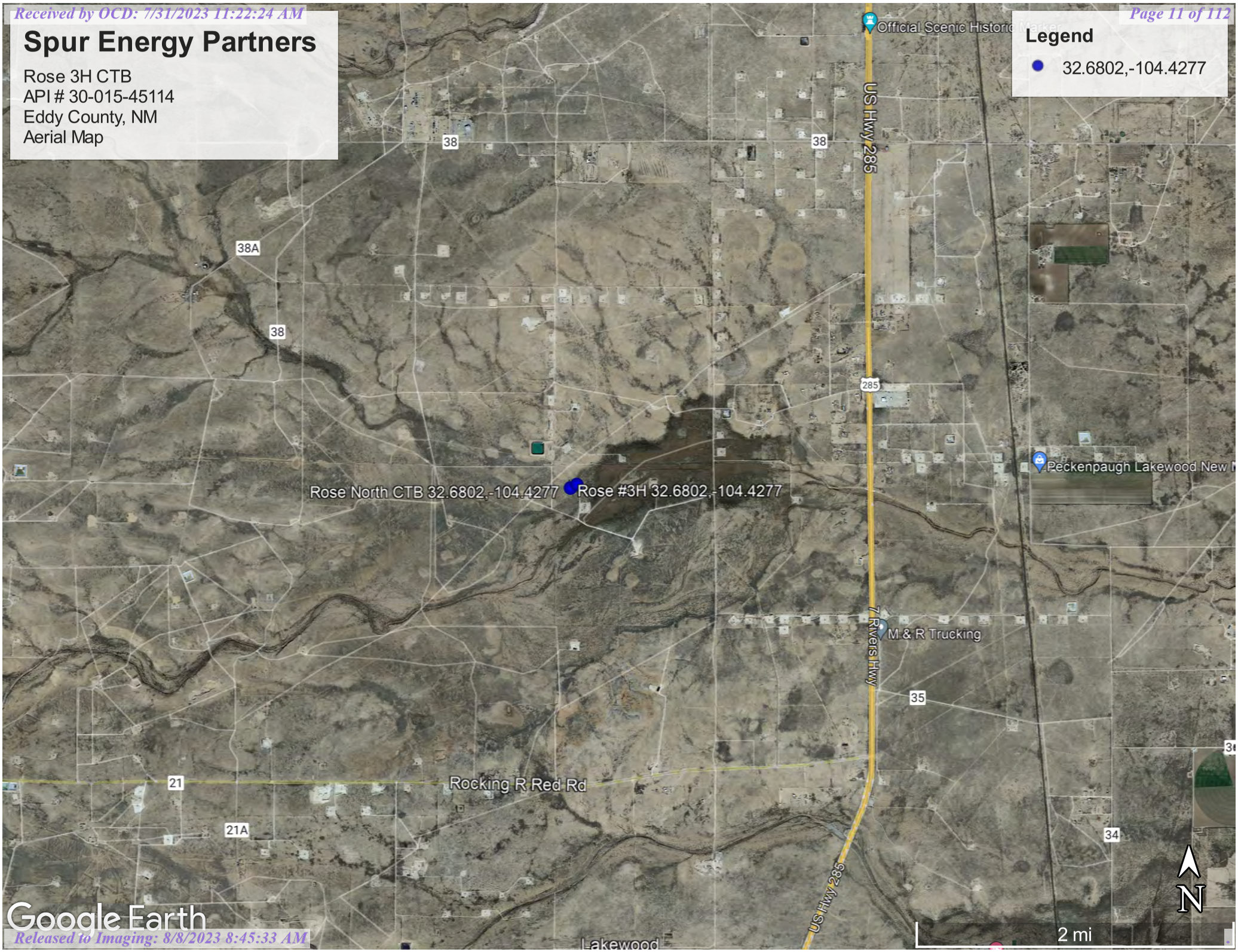


Spur Energy Partners

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

Legend

● 32.6802,-104.4277



Google Earth

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

NSW-2
S-4
S-5
ESW-4
WSW-4
S-1
S-2
S-3
NSW-3
NSW-4
SSW-2
S-6
S-7
S-9
ESW-3
WSW-3
WSW-2
S-8
S-10
ESW-2
SSW-3
SSW-4
Rose North CTB 32.6802,-104.4277
NSW-1
S-12
WSW-1
ESW-1
S-11
S-13
SSW-1
Google Earth
N
60 ft

Appendix A
Referenced Water Data:

New Mexico State of Engineers Office

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 03983		RA	CH		4	3	01	19S	25E	552457	3616444*	1302	375	100	275
RA 01343		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**

7/11/23 5:00 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

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

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

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

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

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMette

FEMA

104°25'57"W 32°41'5"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°25'20"W 32°40'35"N

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/11/2023 at 7:02 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Appendix C:

C-141

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	NAPP2231259277
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Spur Energy Partners	OGRID 328947
Contact Name Braidy Moulder	Contact Telephone 713-264-2517
Contact email bmoulder@spurepllc.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 2 & 3 Battery	Site Type Production
Date Release Discovered 10-14-22	API# 30-015-45114

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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released 15 (bbls)	Volume Recovered 10 (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

4" ball valve on Coleman water line from the separators discharge to water tank developed a pin hole due to internal corrosion causing a 15 barrel spill.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ 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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Braidy Moulder — Title: HSE Manager

Signature: _____ Date:

email: bmoulder@spurenergy.com — Telephone: 713-264-2517

OCD Only

Received by: Jocelyn Harimon Date: 11/15/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2231259277
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?	50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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

Incident ID	nAPP2231259277
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: 7/31/2023

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: Shelly Wells Date: 7/31/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2231259277
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 Purvis Date: 7/31/2023

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: Shelly Wells Date: 7/31/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2231259277
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: 7/31/2023

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: Shelly Wells Date: 7/31/2023

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

Friday, July 21, 2023 at 17:05:14 Central Daylight Time

Subject: Rose 3H
Date: Tuesday, June 20, 2023 at 3:00:18 PM Central Daylight Time
From: Angel Pena
To: Bratcher, Michael, EMNRD, Chris Jones, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD, Nobui, Jennifer, EMNRD

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,

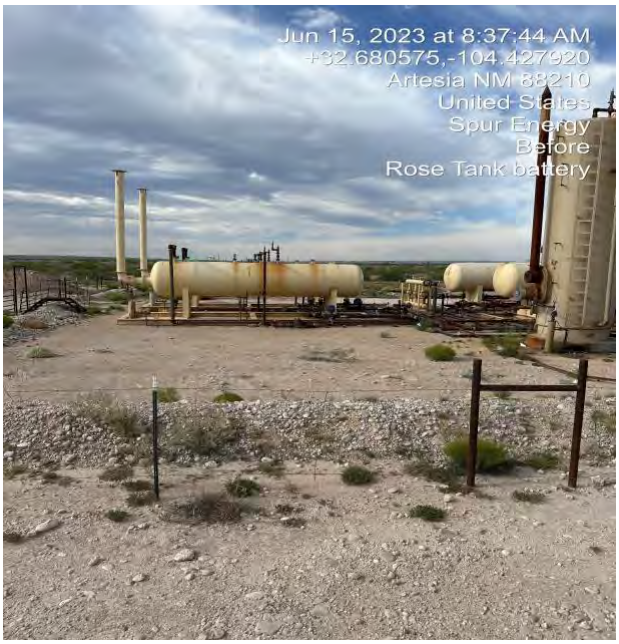
Angel Peña

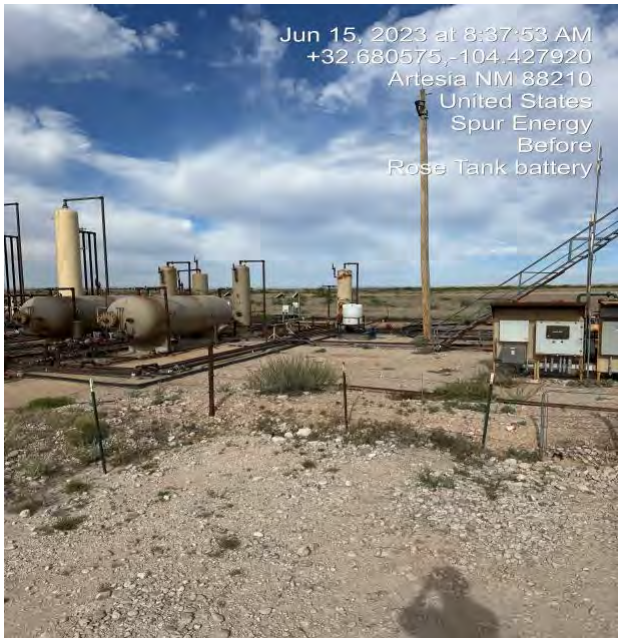
575-605-0773

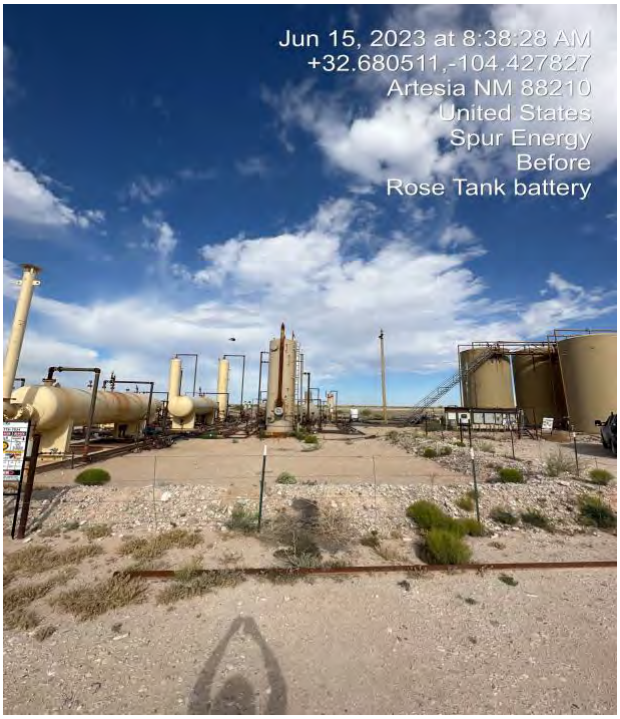
Paragon Environmental LLC.

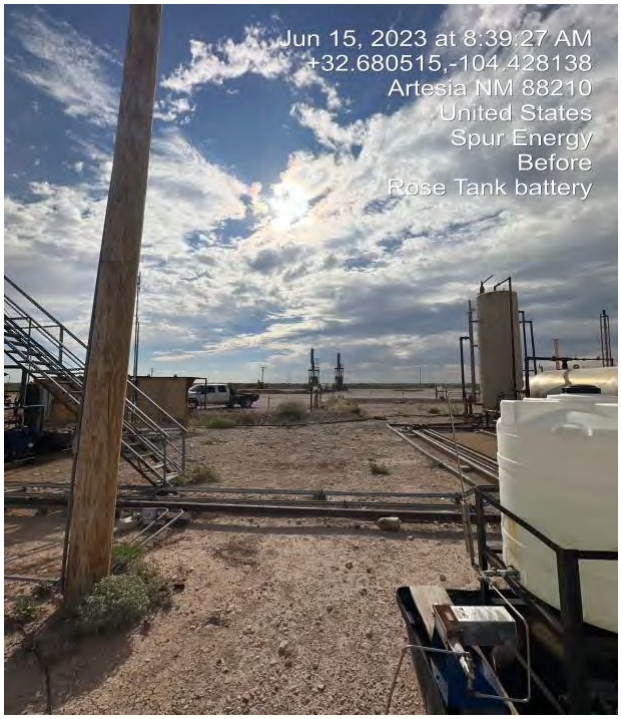
Photographic Documentation

Before Remediation



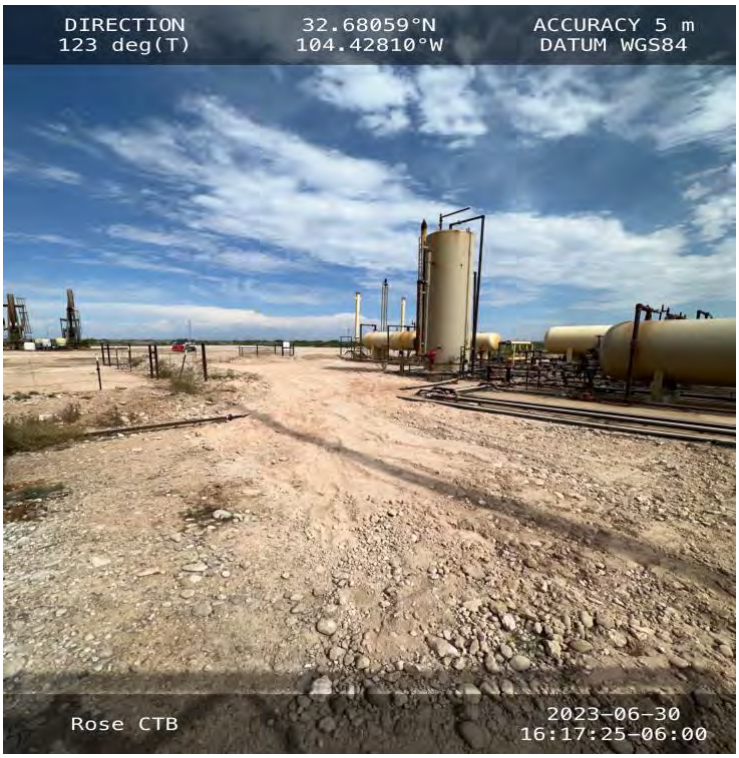






During Remediation

Post Remediation



Appendix E:

Laboratory Results

CARDINAL Laboratories

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.

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

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

Accreditation applies to public drinking water matrices.

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 *89.7 %* *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

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 *89.6 %* *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

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 *89.8 %* *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	**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*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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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CARDINAL Laboratories

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Analytical Results For:

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

Received:	11/18/2022	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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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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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, 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	11/19/2022	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*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, 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 *88.6 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *92.7 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, 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 *93.0 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *99.9 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, 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 *92.4 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *97.5 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	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*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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 *=Accredited Analyte

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

CARDINAL Laboratories

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	Sampling Date:	11/15/2022
Reported:	11/22/2022	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Shalyn Rodriguez
Project Location:	32.680200-104.427700		

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, SM4500Cl-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

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

CARDINAL Laboratories

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

Cardinal Laboratories *=Accredited Analyte

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

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	BILL TO
Project Manager: Cason Spurlock	P.O. #:
Address: 5002 Carriage Rd	Company:
City: Hobbs State: NM Zip: 88242	Attn:
Phone #: 575-631-6977 Fax #:	Address:
Project #: Project Owner: Spur	City:
Project Name: Rosc CTB	State: Zip:
Project Location: Eddy, NM	Phone #:
Sampler Name: Angel Pena	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	Chlorides	TPH EXT
H235460																	
1	S-1	G	1			X					X		11/15		X	X	X
2	S-1																
3	S-1																
4	S-1																
5	S-1																
6	S-2																
7	S-2																
8	S-2																
9	S-3																
10	S-3																

Relinquished By:	Date: 11/18	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1:16		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One) -0.8°C 0.4°C	Sample Condition: Cool ☐ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: -1.4°C #113			

† 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
State:	NM
Zip:	88242
Phone #:	575-631-6977
Fax #:	
Project #:	
Project Owner:	
Project Name:	
Project Location:	
Sampler Name:	

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	Chlorides	TPH EXT
H22541																		
11	S-3	2'	C	1			X					X		11/15		X	X	X
12	S-4	0'-6"																
13	S-4	1'																
14	S-4	2'																
15	S-4	3'																
16	S-5	0'-6"																
17	S-5	1'																
18	S-5	2'																
19	S-5	3'																
20	S-6	0'-6"																

Relinquished By:	Date: 11/16	Received By:	
	Time: 1:16		
Relinquished By:	Date:	Received By: S Rodriguez	
	Time:		

Delivered By: (Circle One) -0.8° C -0.6° C
Sampler - UPS - Bus - Other: -1.4° C #113

Sample Condition: Cool: Yes / No; Intact: Yes / No

CHECKED BY: (Initials) SR

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

† 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	BILL TO
Project Manager: Cason Spurlock	P.O. #:
Address: 5002 Carriage Rd	Company:
City: Hobbs State: NM Zip: 88242	Attn:
Phone #: 575-631-6977 Fax #:	Address:
Project #: Project Owner:	City:
Project Name:	State: Zip:
Project Location:	Phone #:
Sampler Name:	Fax #:

ANALYSIS REQUEST: BTEX, Chlorides, TPH EXT

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME
H22546														
21	S-6	1'	C	1		1					1		11/5	
22	S-7	0"-6"												
23	S-7	1'												
24	S-7	2'												

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:	Date: 11/8	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1:18		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-0.8 C-0.6 -1.4 #113	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) SR

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

CARDINAL Laboratories

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/qa/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

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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

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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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**720**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**336**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*110 %*	*49.1-148*		*3062704*	MS	*27-Jun-23*	*8015B*	

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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 - 3 4'

H233304-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**336**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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*	
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			*93.3 %*	*48.2-134*		*3062704*	MS	*27-Jun-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*99.7 %*	*49.1-148*		*3062704*	MS	*27-Jun-23*	*8015B*	

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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*118 %*	*49.1-148*		*3062704*	MS	*27-Jun-23*	*8015B*	

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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**656**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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			*110 %*	*48.2-134*		*3062704*	MS	*27-Jun-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*118 %*	*49.1-148*		*3062704*	MS	*27-Jun-23*	*8015B*	

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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**144**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*97.2 %*	*49.1-148*		*3062704*	MS	*27-Jun-23*	*8015B*	

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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**336**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*101 %*	*49.1-148*		*3062704*	MS	*27-Jun-23*	*8015B*	

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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 - 8 4'

H233304-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**160**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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*	
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			*104 %*	*48.2-134*		*3062704*	MS	*27-Jun-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*110 %*	*49.1-148*		*3062704*	MS	*27-Jun-23*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

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 - 9 4'

H233304-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*122 %*	*49.1-148*		*3062707*	MS	*27-Jun-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**112**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*124 %*	*49.1-148*		*3062707*	MS	*27-Jun-23*	*8015B*	

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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 - 11 4'

H233304-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	3062711	AC	27-Jun-23	4500-Cl-B	
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*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3062707	MS	27-Jun-23	8015B	
DRO >C10-C28*	**15.3**		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*	
Surrogate: 1-Chlorooctadecane			*112 %*	*49.1-148*		*3062707*	MS	*27-Jun-23*	*8015B*	

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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**160**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*116 %*	*49.1-148*		*3062707*	MS	*27-Jun-23*	*8015B*	

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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 - 13 4'

H233304-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**256**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**320**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*107 %*	*49.1-148*		*3062707*	MS	*27-Jun-23*	*8015B*	

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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 - 2 4'

H233304-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*109 %*	*49.1-148*		*3062707*	MS	*27-Jun-23*	*8015B*	

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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 - 3 4'

H233304-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**432**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*106 %*	*49.1-148*		*3062707*	MS	*27-Jun-23*	*8015B*	

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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 - 4 4'

H233304-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**448**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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			*117 %*	*48.2-134*		*3062708*	MS	*27-Jun-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*114 %*	*49.1-148*		*3062708*	MS	*27-Jun-23*	*8015B*	

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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 - 1 4'

H233304-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**864**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*109 %*	*49.1-148*		*3062708*	MS	*27-Jun-23*	*8015B*	

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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 - 2 4'

H233304-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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)			*107 %*	*71.5-134*		*3062702*	MS	*27-Jun-23*	*8021B*	
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			*120 %*	*48.2-134*		*3062708*	MS	*27-Jun-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*116 %*	*49.1-148*		*3062708*	MS	*27-Jun-23*	*8015B*	

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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**176**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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)			*105 %*	*71.5-134*		*3062702*	MS	*27-Jun-23*	*8021B*	
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			*124 %*	*48.2-134*		*3062708*	MS	*27-Jun-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*118 %*	*49.1-148*		*3062708*	MS	*27-Jun-23*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

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CARDINAL Laboratories

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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**112**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*108 %*	*49.1-148*		*3062708*	MS	*27-Jun-23*	*8015B*	

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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**496**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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)			*105 %*	*71.5-134*		*3062702*	MS	*27-Jun-23*	*8021B*	
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			*109 %*	*48.2-134*		*3062708*	MS	*27-Jun-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*107 %*	*49.1-148*		*3062708*	MS	*27-Jun-23*	*8015B*	

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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**112**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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			*117 %*	*48.2-134*		*3062708*	MS	*27-Jun-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*114 %*	*49.1-148*		*3062708*	MS	*27-Jun-23*	*8015B*	

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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 - 3 4'

H233304-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**288**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*118 %*	*49.1-148*		*3062708*	MS	*27-Jun-23*	*8015B*	

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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 - 4 4'

H233304-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*128 %*	*49.1-148*		*3062709*	MS	*27-Jun-23*	*8015B*	

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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

WSW - 1 4'

H233304-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**352**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**752**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*128 %*	*49.1-148*		*3062709*	MS	*27-Jun-23*	*8015B*	

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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

WSW - 3 4'

H233304-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**128**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*120 %*	*49.1-148*		*3062709*	MS	*27-Jun-23*	*8015B*	

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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

WSW - 4 4'

H233304-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**144**		16.0	mg/kg	4	3062713	AC	27-Jun-23	4500-Cl-B	
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*	
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*	
Surrogate: 1-Chlorooctadecane			*111 %*	*49.1-148*		*3062709*	MS	*27-Jun-23*	*8015B*	

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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

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3062711 - 1:4 DI Water										
Blank (3062711-BLK1)				Prepared & Analyzed: 27-Jun-23						
Chloride	ND	16.0	mg/kg							
LCS (3062711-BS1)				Prepared & Analyzed: 27-Jun-23						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3062711-BSD1)				Prepared & Analyzed: 27-Jun-23						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 3062713 - 1:4 DI Water										
Blank (3062713-BLK1)				Prepared & Analyzed: 27-Jun-23						
Chloride	ND	16.0	mg/kg							
LCS (3062713-BS1)				Prepared & Analyzed: 27-Jun-23						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3062713-BSD1)				Prepared & Analyzed: 27-Jun-23						
Chloride	480	16.0	mg/kg	400		120	80-120	10.5	20	

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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
Batch 3062701 - Volatiles										
Blank (3062701-BLK1)				Prepared & 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 & 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 & 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 & 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

CARDINAL Laboratories

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
Batch 3062702 - Volatiles										
Blank (3062702-BLK1)				Prepared & 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 & 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-BSD1)				Prepared & 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 & 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

CARDINAL Laboratories

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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
Batch 3062703 - Volatiles										
LCS (3062703-BS1)				Prepared & 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 & 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
Batch 3062704 - General Prep - Organics										
Blank (3062704-BLK1)				Prepared & 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 & 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-BSD1)				Prepared & 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 & 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

CARDINAL Laboratories

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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
Batch 3062707 - General Prep - Organics										
LCS (3062707-BS1)				Prepared & 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-BSD1)				Prepared & 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 & 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 & 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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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
Batch 3062708 - General Prep - Organics										
LCS Dup (3062708-BSD1)				Prepared & 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 & 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 & 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 & 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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

183

Company Name:	Pargon Environmental
Project Manager:	Chris Jones
Address:	1601 N. Turner
City:	Hobbs State: NM Zip: 88240
Phone #:	575-631-6977 Fax #:
Project #:	Project Owner: Spur
Project Name:	Rox TB
Project Location:	Rural Eddy
Sampler Name:	Abel E, Jeremy

BILL TO

P.O. #:	
Company:	Spur
Attn:	
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	

ANALYSIS REQUEST

TPH | 13 TEX | Chlor. Jes

FOR LAB USE ONLY Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME
H233304															
1	S-1	4'	C				X					X		6-26	
2	S-2	4'													
3	S-3	4'													
4	S-4	4'													
5	S-5	4'													
6	S6	4'													
7	S-7	4'													
8	S-8	4'													
9	S-9	4'													
10	S10	4'													

Relinquished By:	Date: 6-26-23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1640		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 2.9	Sample Condition: Cool ☑ Yes / Intact ☑ Yes	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ / Rush ☑
Sampler - UPS - Bus - Other:	Corrected Temp. °C 2.3	☐ No ☐ No	TO	Thermometer ID #113 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No / Intact ☐ Yes ☐ No — Observed Temp. °C — Corrected Temp. °C

24HR

FORM-006 R 3.3 07/18/22

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: Paragon	**BILL TO**		ANALYSIS REQUEST
Project Manager:	P.O. #:		
Address:	Company:		
City: State: Zip:	Attn:		
Phone #: Fax #:	Address:		
Project #: Project Owner:	City:		
Project Name:	State: Zip:		
Project Location:	Phone #:		
Sampler Name:	Fax #:		

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		TPH	13 TEX	Chlorides
Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME			
H233304																		
11	S-11	4'	G	1			X					X		6-26		X	X	X
12	S-12	4'																
13	S-13	4'																
14	SSW-1	4'																
15	SSW-2	4'																
16	SSW-3	4'																
17	SSW-4	4'																
18	ESW-1	4'																
19	ESW-2	4'																
20	ESW-3	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 consequental 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:	Date: 6-26-23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1640		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 2.9	Sample Condition	CHECKED BY:	Turnaround Time: Standard ☐ Rush ☑	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C 2.3	Cool ☑ Yes ☐ No / Intact ☑ Yes ☐ No	(Initials)	Thermometer ID #113 Correction Factor -0.6°C	Cool ☐ Yes ☐ Nc / Intact ☐ Yes ☐ No / Observed Temp. °C / Corrected Temp. °C

24HR

FORM-006 R 3.3 07/18/22

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: Dragon	**BILL TO**		ANALYSIS REQUEST
Project Manager:	P.O. #:		
Address:	Company:		
City: State: Zip:	Attn:		
Phone #: Fax #:	Address:		
Project #: Project Owner:	City:		
Project Name:	State: Zip:		
Project Location:	Phone #:		
Sampler Name:	Fax #:		

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		TPH	BTEX	Chlorides										
Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME														
H233304																												
21	ESW-4	4'	C	1			X					X																
22	NSW-1	4'																										
23	NSW-2	4'																										
24	NSW-3	4'																										
25	NSW-4	4'																										
26	WSW-1	4'																										
27	WSW-2	4'																										
28	WSW-3	4'																										
29	WSW-4	4'																										

Relinquished By:	Date: 8/26/23 Time: 1640	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.9 Corrected Temp. °C 2.3	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials) TP
Turnaround Time: Standard ☐ Rush ☑ 24hr Thermometer ID #113 Correction Factor -0.6°C	Bacteria (only) Sample Condition Cool ☐ Yes ☐ Nc Intact ☐ Yes ☐ No	Observed Temp. °C Corrected Temp. °C	

FORM-006 R 3.3 07/18/22

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

CARDINAL Laboratories

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

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Tamara Oldaker
Project Location:	32.680200-104.427700		

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

Chloride, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	ROSE CTB	Sampling Condition:	Cool & Intact
Project Number:	SPUR	Sample Received By:	Tamara Oldaker
Project Location:	32.680200-104.427700		

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	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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		BILL TO	
Project Manager: Chris Jones		P.O. #:	
Address: 1601 N. Turner St., Ste 500		Company: Spur	
City: Hobbs	State: NM Zip: 88240	Attn:	
Phone #: 575-964-7814	Fax #:	Address:	
Project #:	Project Owner: Spur	City:	
Project Name: Rose CTB		State: Zip:	
Project Location: Rural Eddy		Phone #:	
Sampler Name: Angel & Jeremy		Fax #:	

FOR LAB USE ONLY	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides
Lab I.D.															
H233339															
1	S-1 4'	C				X					X		6-28-23		
2	S-2 4'														
3	S-3 4'														
4	ESW-1 4'														
5	WSW-2 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:	Date: 6-28-23	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1320		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: *
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113 2.1° / 1.5°

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

Rush! 24HRS

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

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 246056

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 246056
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

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