

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>49.000</u>	<u>20.000</u>	<u>0.500</u>
Cubic Feet Impacted		<u>40.833</u>
Barrels		<u>7.27</u>
Soil Type		Lined Containment
Bbls Assuming 100% Saturation		<u>7.27</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released	7.30000	

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

Measurements	
Length (ft)	49
Width (ft)	20
Depth (in)	0.500









May 29, 2024

NMOCD District 2
Mike Bratcher
Artesia, NM 88210

Bureau of Land Management
Crisha Morgan
Carlsbad Field Office

Re: Site Assessment, Remediation, and Closure Report
Thunder Road Federal Battery
API No. N/A
GPS: Latitude 32.82281 Longitude -103.99096
UL "G", Sec. 20, T17S, R30E
Eddy County, NM
NMOCD Ref. No. NAPP2326255232

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment and write the closure report for the release site known as the Thunder Road Federal Battery (Thunder Road). Contractor BB&I performed the remediation since they were the responsible party that caused the release. Details of the release are summarized below:

Release Details			
Type of Release:	Crude Oil	Volume of Release:	7 bbls
		Volume Recovered:	0 bbls
Source of Release:	Tanker Truck	Date of Release:	09/18/23
Was Immediate Notice Given?	Yes	If, Yes, to Whom?	N/A
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	Federal	Mineral Owner:	State
Oil Hauler tanker trailer ran over releasing oil onto the location pad.			

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

REGULATORY FRAMEWORK & SITE CHARACTERIZATION

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

- Depth to Groundwater in the affected area 75-100'
- Method to determine DTW NM OSE
- Did the release impact groundwater or surface water No

Depth to groundwater information is provided in Appendix A.

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

- A Continuously flowing watercourse or any other significant watercourse- 1-5 mile
- Any lakebed, sinkhole, or playa lake- 1-5 mi
- An occupied permanent residence, school, hospital, institution, or church- 1000'-1/2 mi
- A spring or a private domestic fresh water well used by less than 5 households for domestic or stock watering purposes- 1000'-1/2 mi
- Any other fresh water well or spring- 1000'-1/2 mi
- Incorporated municipal boundaries or a defined municipal fresh water well field- 1000'-1/2 mi
- A wetland- 1-5 mi
- A subsurface mine- >5 mi
- An (non-karst) unstable area- >5 mi
- Categorize the risk of this well/site being in a karst area geology- Low
- A 100-year floodplain- 1/2-1 mi
- Did the release impact areas not on an exploration, development, production, or storage site- No

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- and is made up of Eolian and Piedmont deposits (Holocene to middle Pleistocene)— Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits (QEP). According to the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Berino complex, with 0 to 3 percent slopes. The drainage course in this area is well-drained. There is no high potential for karst geology around the Thunder Road.

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

INITIAL SITE ASSESSMENT & SOIL SAMPLING EVENT

On September 26, 2023, Paragon conducted an initial site assessment. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A data table summarizing the laboratory analytical results from the sampling event is provided below:

9-26-23 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 80')								
Sample Date 9/26/23		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 2,500 mg/kg	Closure Criteria 10,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRQ	MRO	Total TPH	CHLORIDES
S-1	3.5'	ND	ND	ND	ND	ND	ND	1470
S-2	3'	ND	ND	ND	23.7	ND	23.7	160
S-3	1'	0.911	ND	90.4	1500	290	1880.4	288
S-4	1'	99.6	1.85	1580	10700	2090	14370	208
S-5	1.5'	ND	ND	ND	34.6	ND	34.6	ND
BG-1	SURFACE	ND	ND	ND	ND	ND	ND	ND
BG-2	SURFACE	ND	ND	ND	ND	ND	ND	ND
BG-3	SURFACE	ND	ND	ND	ND	ND	ND	ND
BG-4	SURFACE	ND	ND	ND	ND	ND	ND	ND

(ND) - Analyte Not Detected

All Laboratory analytical reports are provided in Appendix D. A Site Map is provided in Figure #1.

REMEDIATION ACTIVITIES

On November 8, 2023, BB&I mobilized personnel and heavy equipment for remedial activities. Based on the site characteristics and field observations made during the site assessment, the following remedial activities were undertaken to advance the Release Site toward an NMOCD-approved site closure:

- The areas of S-1 and S-2 were excavated to a depth of 6 inches BGS. This area measured approximately 400 s/f, and a calculated volume of 20 c/y was removed. A hydrovac was utilized in the area of S-1 because of buried underground power and flowlines.
- The areas of S-3, S-4, and S-5 were excavated to a depth of 2 feet BGS. This area measured approximately 280 s/f, and a calculated volume of 70 c/y was removed.
- Once the area was excavated to the specified depths, NMOCD was notified of the sampling event, Appendix C, and we obtained confirmation samples. We utilized composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this event are in the following data table:

11-27-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 80')								
Sample Date 11/27/23		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 1,000 mg/kg	Closure Criteria 10,000 mg/kg
Sample ID	Depth (BG5)	BTEX	Benzene	GRO	DRD	MRO	Total TPH	CHLORIDES
S-1	6"	ND	ND	ND	49.5	ND	49.5	3680
S-2	6"	ND	ND	ND	55.8	ND	55.8	1170
S-3	6"	ND	ND	ND	16.9	ND	16.9	1120
S-4	6"	ND	ND	ND	576	114	690	2960
S-5	6"	ND	ND	ND	713	160	873	624
S-6	6"	ND	ND	ND	450	89.7	539.7	352
S-7	2'	ND	ND	ND	76.8	14.6	91.4	80
S-8	2'	ND	ND	ND	74.2	13.3	87.5	48
S-9	2'	ND	ND	22.4	1150	272	1444.4	80
S-10	2'	ND	ND	ND	95	22.5	117.5	1540
WSW 1	6"	ND	ND	ND	21	ND	21	4720
WSW 2	6"	ND	ND	ND	78.9	17.2	96.1	3000
WSW 3	6"	ND	ND	ND	1470	389	1859	32
WSW 4	2'	3,58	ND	128	6560	1590	8278	176
ESW 1	6"	ND	ND	ND	94	33.3	127.3	6530
ESW 2	6"	ND	ND	ND	107	27.8	134.8	2400
ESW 3	6"	ND	ND	ND	149	27.4	176.4	528
ESW 4	6"	ND	ND	ND	1810	483	2293	368
NSW 1	6"	ND	ND	ND	168	52	220	12300
NSW 2	2'	ND	ND	ND	67	18.1	85.1	208
SSW 1	2'	ND	ND	ND	100	16.7	116.7	112

ND- Analyte Not Detected

It was determined additional material needed to be excavated.

In the area of S-9 we removed an additional 6 inches from the bottom of the excavation.

We also extended the sidewall areas an additional 6 inches from the areas of WSW 3, WSW 4, ESW 4, and NSW 1. Additional samples were obtained during this process. The additional results are in the following data tables.

12-8-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 80')								
Sample Date 12/18/23		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 1,000 mg/kg	Closure Criteria 10,000 mg/kg
Sample ID	Depth (BG5)	BTEX	Benzene	GRO	DRD	MRO	Total TPH	CHLORIDES
S-9	2.5'	ND	ND	ND	ND	ND	ND	768
WSW 3	6"	ND	ND	ND	17.5	ND	17.5	688
WSW 4	2'	ND	ND	ND	ND	ND	ND	1090
NSW 1	6"	ND	ND	ND	ND	ND	ND	1380

ND- Analyte Not Detected

It was noticed that we missed gathering an additional sample from ESW 4, so we returned and obtained an additional sample from this area.

12-15-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 80')								
Sample Date 12/15/23		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 1,000 mg/kg	Closure Criteria 10,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
ESW 4	6"	—	—	ND	ND	ND	ND	—

ND- Analyte Not Detected

- Laboratory analytical results indicated that the excavation site concentrations were below NMOCD Closure Criteria.
- All excavated soils were temporarily stockpiled on-site atop a poly liner during the project. It was transported to Sundance, an NMOCD-approved waste disposal facility, where backfill material was also obtained. The affected area was then contoured and machine-compacted to match the surrounding grade.
- All work for this project concluded on December 17, 2023.

INITIAL DENIAL AND RECTIFIED REMEDIATION ACTIVITIES

The initial closure report was denied by the NMOCD. Stating that the areas of S-5, S-6, S-9, S-10, SSW 1, WSW 3, and WSW 4 meet reclamation requirements since this was in a roadway.

Paragon coordinated again with BB&I being the responsible party for this spill and cleanup. Paragon supervising the excavation, BB&I mobilized equipment to begin additional efforts.

On May 6, 2024, excavation began.

- The previous areas of S-5, S-6, and WSW-3 were excavated to a depth of 3 feet BGS. This area measured approximately 100 S/F, and app. 12 C/Y were removed. When sampled, this area was labeled S-1, NSW, and ESW.
- The previous areas of S-9, S-10, SSW-1, and WSW-4 were originally excavated to a depth of 3 feet BGS. This area measured app. 105 S/F and app. 14 C/Y were removed. When sampled, this area was labeled S-2, SSW, and WSW.

Sample locations are identified in the 2nd Confirmation Map attached in Figure 6.

On May 7, 2024, a sampling event was submitted to the NMOCD. The results of the sampling event are in the following data table:

5-10-24 Lab Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 80')								
Sample Date 5/10/24		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 2,500 mg/kg	Closure Criteria 10,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRD	MRO	Total TPH	CHLORIDES
S-1	3'	ND	ND	ND	ND	ND	ND	384
S-2	3'	ND	ND	ND	ND	ND	ND	752
NSW	3'	ND	ND	ND	ND	ND	ND	304
ESW	3'	ND	ND	ND	ND	ND	ND	336
SSW	3'	ND	ND	ND	ND	ND	ND	320
WSW	3'	ND	ND	ND	ND	ND	ND	480

ND-Analyte Not Detected

After the results from the above sampling were received, we returned to the project and excavated an additional 6 inches from the area of S-2. On May 20, 2024, another sample was obtained and sent to the lab. That result is in the following data table:

5-21-24 Lab Result

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 80')								
Sample Date 5/20/24		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 2,500 mg/kg	Closure Criteria 10,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRD	MRO	Total TPH	CHLORIDES
S-2	3.5'	ND	ND	ND	ND	ND	ND	64

ND-Analyte Not Detected

CLOSURE REQUEST

After careful review, Paragon requests that the incident, NAPP2326255232, 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 Chris Jones by phone at (575)6316977 or email chris@paragonenvironmental.net.

Respectfully,



Chris Jones
Environmental Professional
Paragon Environmental, LLC



Attachments

Figures:

- 1- Site Map
- 2- Topographic Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Sample Map
- 6- 2nd Confirmation Sample Map

Appendices:

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



Figures:

- 1-Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Map
- 6- 2nd Confirmation Map

Spur Energy Partners

Thunder Road Federal Battery
Eddy County, NM
Site Map

Legend

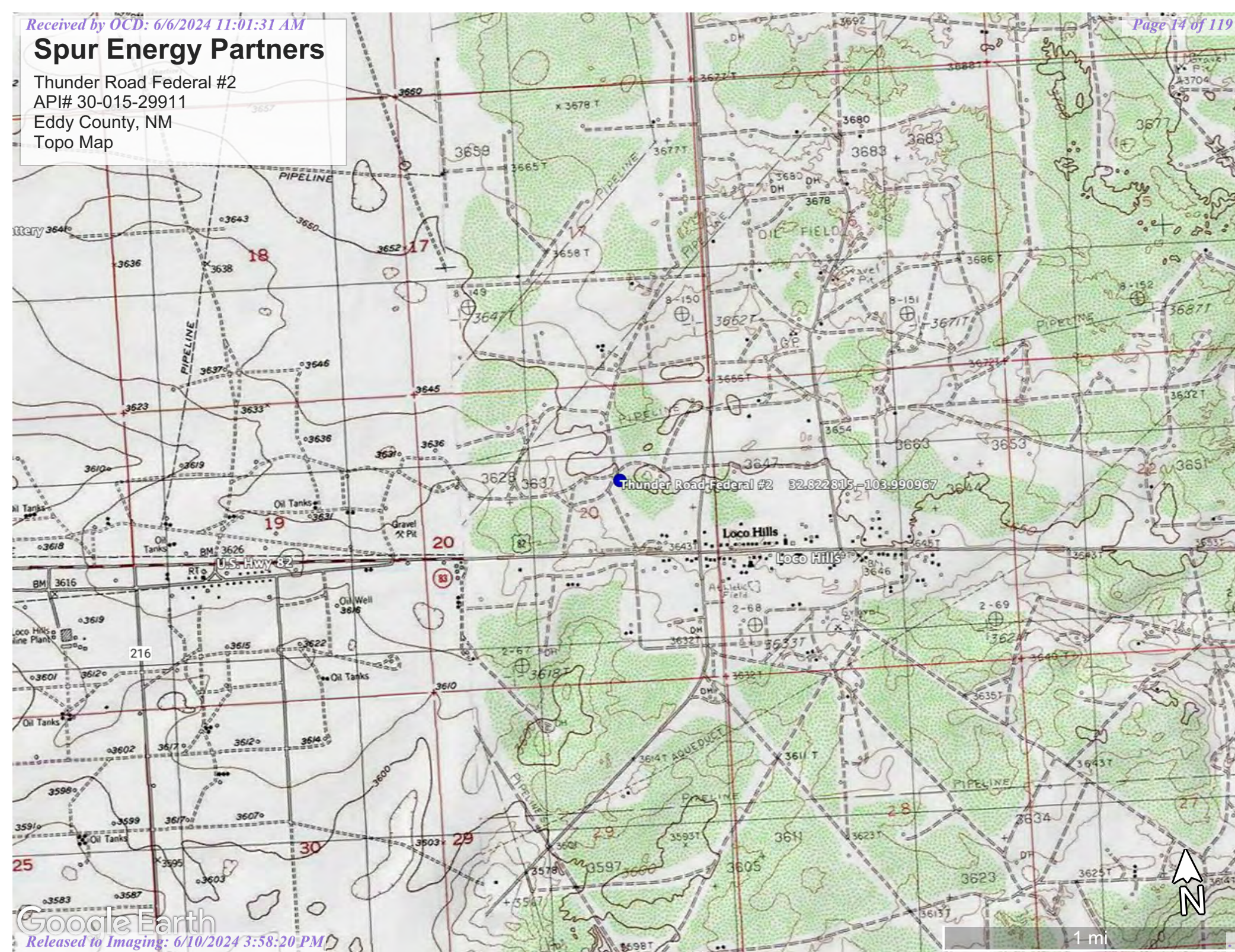
- Samples
- Spill Area



Thunder Road Federal #2 32.822815, -103

Spur Energy Partners

Thunder Road Federal #2
API# 30-015-29911
Eddy County, NM
Topo Map



Spur Energy Partners

Thunder Road Federal #2
API# 30-015-29911
Eddy County, NM
Karst Map

Legend

- High
- Low
- Medium



Spur Energy Partners

Thunder Road Federal #2
API# 30-015-29911
Eddy County, NM
Aerial Map

Thunder Road Federal #2 32.822815, -103.990967

Hagerman Cutoff Rd

Goat Ropers Rd

Goat Ropers Rd

Lovington Hwy

Hills Rest Area

General Store

Supply Store

Loco Hills

Timothy Dr J C Services

Hagerman Cutoff

Google Earth

2000 ft



Spur Energy Partners

Thunder Road Federal Battery
Eddy County, NM
Confirmation Map

Legend




- 2' EXCAVATION
- 6" EXCAVATION
- Samples



Spur Energy Partners

Thunder Road Federal Battery
Eddy County, NM
2nd Confirmation Map

Legend

-  3.5' Excavation 105 S/F- 14 C/Y
-  3' Excavation 100 S/F- 12 C/Y
-  Samples





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	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 11914 POD1		RA	ED	2	4	2	20	17S	30E	594801	3632002	362	85	80	5
Average Depth to Water:														80 feet	
Minimum Depth:														80 feet	
Maximum Depth:														80 feet	

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 594450.764

Northing (Y): 3632094.968


Radius: 1600

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y			
	RA 11914 POD1	2	4	2	20	17S	30E	594801	3632002			
x												
Driller License:		1682		Driller Company:			HUNGRY HORSE, LLC.					
Driller Name:		JOHN NORRIS										
Drill Start Date:		03/19/2013		Drill Finish Date:			03/19/2013		Plug Date:			
Log File Date:		04/09/2013		PCW Rcv Date:						Source: Shallow		
Pump Type:					Pipe Discharge Size:						Estimated Yield:	
Casing Size:					Depth Well:			85 feet		Depth Water: 80 feet		
x												
Water Bearing Stratifications:				Top	Bottom	Description						
				11	85	Sandstone/Gravel/Conglomerate						
x												

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/3/23 9:21 AM

POINT OF DIVERSION SUMMARY



Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Eddy Area, New Mexico

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent

Pajarito and similar soils: 25 percent

Minor components: 15 percent

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

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam

H3 - 58 to 60 inches: loamy sand

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 slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Pajarito

Setting

Landform: Dunes, plains, interdunes
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 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: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Wink

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 4 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Pajarito

Percent of map unit: 4 percent

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Kermit

Percent of map unit: 3 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Data Source Information

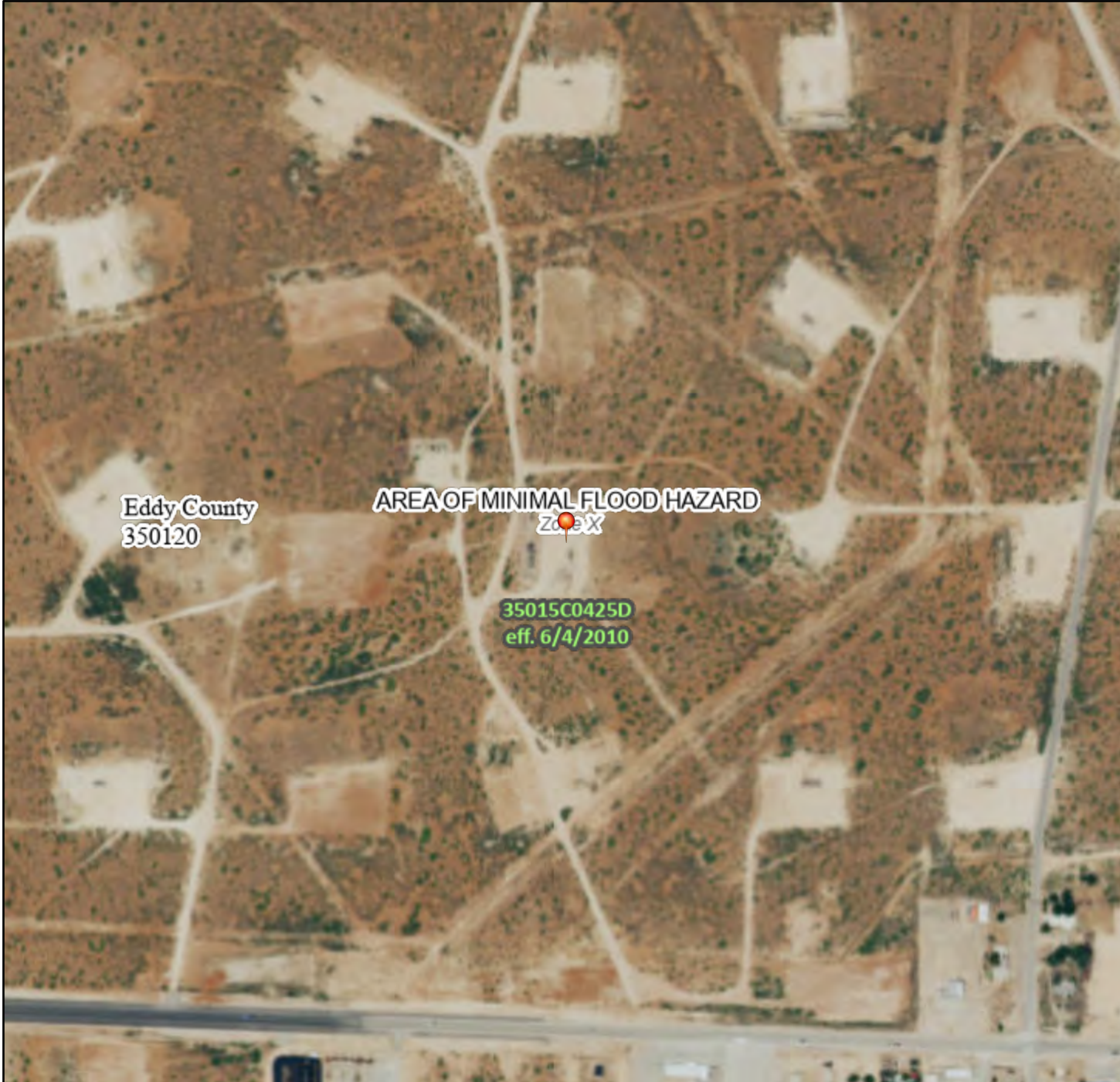
Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

National Flood Hazard Layer FIRMette



103°59'46"W 32°49'37"N



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

1:6,000

103°59'9"W 32°49'7"N

Released to Imaging: 6/10/2024 3:38:20 PM

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 Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/29/2023 at 2:13 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Appendix C:
NMOCD Notification
Photographic Documentation

Friday, December 29, 2023 at 13:04:59 Central Standard Time

Subject: nAPP2326255232
Date: Monday, November 20, 2023 at 4:28:45 PM Central Standard Time
From: Chris Jones
To: Bratcher, Michael, EMNRD, OCDOnline@state.nm.us, Hamlet, Emnrd
CC: Jeremy Maner, Katherine Purvis, Braidy Moulder
Attachments: image001.jpg

Mike,

This is to inform you we will be taking confirmation samples at the Thunder Road Federal Battery on 11/24/23 starting at approximately 9 am. If you have any questions or concerns, please let me know.

Thank You,

Chris Jones
Environmental Professional
1601 N. Turner Ste. 500
Hobbs, NM 88240
chris@paragonenvironmental.net
575-631-6977 cell



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



Angel Pena <angel@paragonenvironmental.net>

The Oil Conservation Division (OCD) has accepted the application, Application ID: 341568

<OCDOnline@state.nm.us>

Tue, May 7 at 11:37 AM

To: <angel@paragonenvironmental.net>

To whom it may concern (c/o Angel Pena for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2326255232.

The sampling event is expected to take place:

When: 05/10/2024 @ 10:45

Where: G-20-17S-30E 0 FNL 0 FEL (32.82281,-103.99096)

Additional Information: Jeremy Maner
575-602-4231

Additional Instructions: 32.82281,-103.99096

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

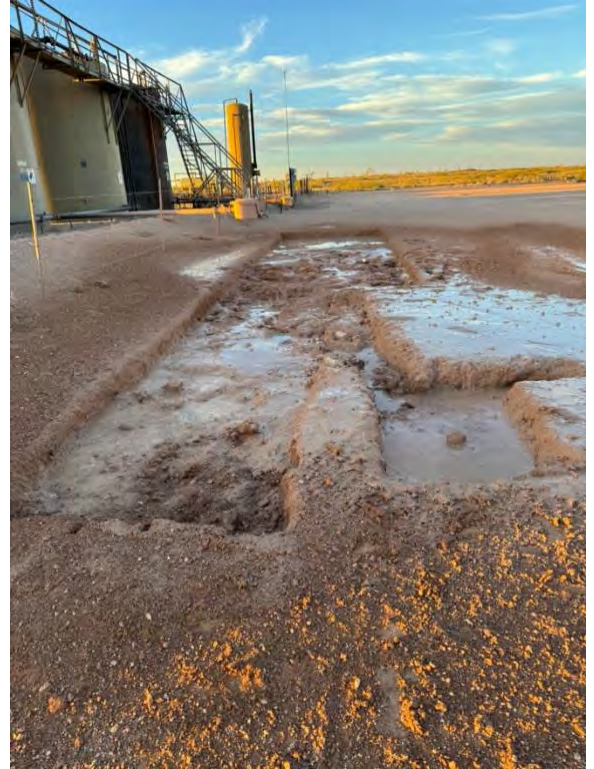


Photographic Documentation

Before



During

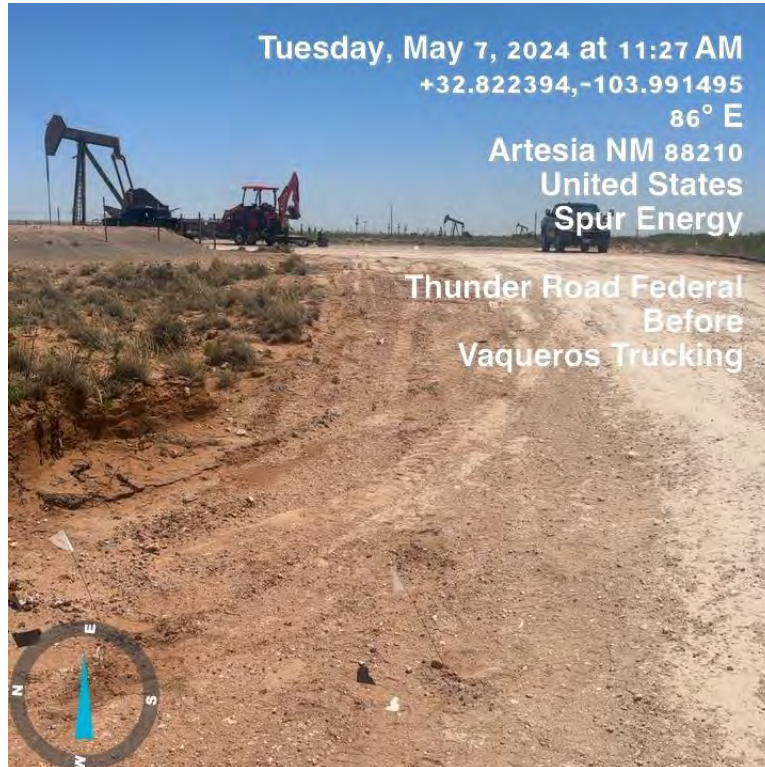
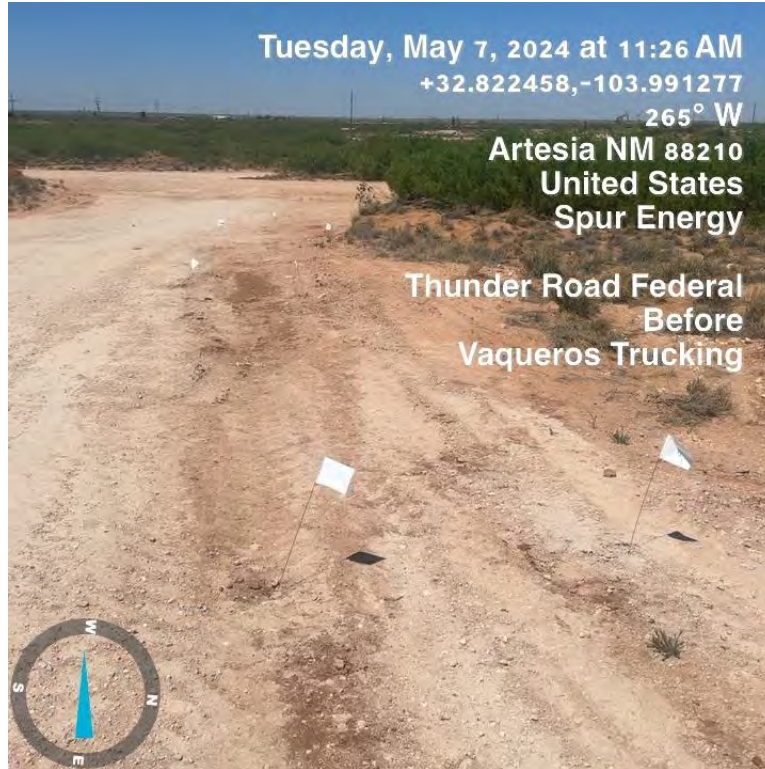




After



**Road Dig Out
Before**



During

Previous S-5, S-6, & WSW-3



During

Previous S-9, S-10, SSW-1, & WSW-4



Completed





Appendix D:
Laboratory Results



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

October 02, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: THUNDER ROAD FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 09/26/23 16:35.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 1 3 1/2" (H235259-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.97	98.7	2.00	2.08	
Toluene*	<0.050	0.050	09/29/2023	ND	2.02	101	2.00	2.34	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	1.98	99.0	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.02	100	6.00	0.907	
Total BTEX	<0.300	0.300	09/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	09/27/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	189	94.4	200	1.56	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	203	101	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 2 3' (H235259-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.97	98.7	2.00	2.08	
Toluene*	<0.050	0.050	09/29/2023	ND	2.02	101	2.00	2.34	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	1.98	99.0	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.02	100	6.00	0.907	
Total BTX	<0.300	0.300	09/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/27/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	189	94.4	200	1.56	
DRO >C10-C28*	23.7	10.0	09/28/2023	ND	203	101	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 3 1' (H235259-03)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.97	98.7	2.00	2.08	
Toluene*	<0.050	0.050	10/02/2023	ND	2.02	101	2.00	2.34	
Ethylbenzene*	0.172	0.050	10/02/2023	ND	1.98	99.0	2.00	1.65	GC-NC1
Total Xylenes*	0.739	0.150	10/02/2023	ND	6.02	100	6.00	0.907	GC-NC1
Total BTEX	0.911	0.300	10/02/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 143 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/27/2023	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*	90.4	10.0	09/28/2023	ND	189	94.4	200	1.56	
DRO >C10-C28*	1500	10.0	09/28/2023	ND	203	101	200	3.17	
EXT DRO >C28-C36	290	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 4 1' (H235259-04)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.85	0.200	10/02/2023	ND	1.97	98.7	2.00	2.08	
Toluene*	23.2	0.200	10/02/2023	ND	2.02	101	2.00	2.34	
Ethylbenzene*	26.9	0.200	10/02/2023	ND	1.98	99.0	2.00	1.65	GC-NC1
Total Xylenes*	47.6	0.600	10/02/2023	ND	6.02	100	6.00	0.907	GC-NC1
Total BTEx	99.6	1.20	10/02/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 187 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/27/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1580	50.0	09/28/2023	ND	189	94.4	200	1.56	
DRO >C10-C28*	10700	50.0	09/28/2023	ND	203	101	200	3.17	
EXT DRO >C28-C36	2090	50.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 211 % 48.2-134

Surrogate: 1-Chlorooctadecane 195 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 5 1 1/2" (H235259-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.97	98.7	2.00	2.08	
Toluene*	<0.050	0.050	10/02/2023	ND	2.02	101	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	1.98	99.0	2.00	1.65	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.02	100	6.00	0.907	
Total BTX	<0.300	0.300	10/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/27/2023	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	09/28/2023	ND	189	94.4	200	1.56	
DRO >C10-C28*	34.6	10.0	09/28/2023	ND	203	101	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: BG - 1 (H235259-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2023	ND	1.97	98.7	2.00	2.08		
Toluene*	<0.050	0.050	09/29/2023	ND	2.02	101	2.00	2.34		
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	1.98	99.0	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.02	100	6.00	0.907		
Total BTX	<0.300	0.300	09/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/27/2023	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	09/27/2023	ND	198	99.0	200	1.32	
DRO >C10-C28*	<10.0	10.0	09/27/2023	ND	201	100	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	09/27/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: BG - 2 (H235259-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.97	98.7	2.00	2.08	
Toluene*	<0.050	0.050	09/29/2023	ND	2.02	101	2.00	2.34	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	1.98	99.0	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.02	100	6.00	0.907	
Total BTX	<0.300	0.300	09/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/27/2023	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	09/27/2023	ND	198	99.0	200	1.32	
DRO >C10-C28*	<10.0	10.0	09/27/2023	ND	201	100	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	09/27/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: BG - 3 (H235259-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.97	98.7	2.00	2.08	
Toluene*	<0.050	0.050	09/29/2023	ND	2.02	101	2.00	2.34	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	1.98	99.0	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.02	100	6.00	0.907	
Total BTX	<0.300	0.300	09/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/27/2023	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	09/27/2023	ND	198	99.0	200	1.32	
DRO >C10-C28*	<10.0	10.0	09/27/2023	ND	201	100	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	09/27/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/26/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: BG - 4 (H235259-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.97	98.7	2.00	2.08	
Toluene*	<0.050	0.050	09/29/2023	ND	2.02	101	2.00	2.34	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	1.98	99.0	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.02	100	6.00	0.907	
Total BTX	<0.300	0.300	09/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/27/2023	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	09/27/2023	ND	198	99.0	200	1.32	
DRO >C10-C28*	<10.0	10.0	09/27/2023	ND	201	100	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	09/27/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

[illegible]



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

December 11, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: THUNDER ROAD FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 12/08/23 15:19.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/08/2023	Sampling Date:	12/08/2023
Reported:	12/11/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	SPUR - EDDY COUNTY		

Sample ID: NSW - 1 6' (H236587-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/08/2023	ND	2.15	107	2.00	8.02		
Toluene*	<0.050	0.050	12/08/2023	ND	2.00	100	2.00	8.14		
Ethylbenzene*	<0.050	0.050	12/08/2023	ND	2.06	103	2.00	7.65		
Total Xylenes*	<0.150	0.150	12/08/2023	ND	6.03	100	6.00	7.53		
Total BTX	<0.300	0.300	12/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	12/11/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	195	97.3	200	0.918	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	164	82.0	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/08/2023	Sampling Date:	12/08/2023
Reported:	12/11/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	SPUR - EDDY COUNTY		

Sample ID: WSW- 4 2' (H236587-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/08/2023	ND	2.15	107	2.00	8.02		
Toluene*	<0.050	0.050	12/08/2023	ND	2.00	100	2.00	8.14		
Ethylbenzene*	<0.050	0.050	12/08/2023	ND	2.06	103	2.00	7.65		
Total Xylenes*	<0.150	0.150	12/08/2023	ND	6.03	100	6.00	7.53		
Total BTX	<0.300	0.300	12/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	12/11/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/08/2023	ND	195	97.3	200	0.918	
DRO >C10-C28*	<10.0	10.0	12/08/2023	ND	164	82.0	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	12/08/2023	ND					

Surrogate: 1-Chlorooctane 59.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 51.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<p>Company Name: <u>Paragon Environmental</u></p> <p>Project Manager: <u>Charles Jones</u></p> <p>Address: <u>1601 N. Turner</u></p> <p>City: <u>Abbeville</u> State: <u>LAH</u> Zip: <u>88240</u></p> <p>Phone #: <u>575-631-6977</u> Fax #: _____</p> <p>Project #: _____ Project Owner: _____</p> <p>Project Name: <u>Rural Eddy</u></p> <p>Project Location: <u>Turner Road Field</u></p> <p>Sampler Name: <u>Angel D. Peña</u></p>		<p>BILL TO</p> <p>P.O. #: _____</p> <p>Company: <u>Paragon</u></p> <p>Attn: _____</p> <p>Address: _____</p> <p>City: _____ State: _____ Zip: _____</p> <p>Phone #: _____</p> <p>Fax #: _____</p>	
<p>FOR LAB USE ONLY</p> <p>Lab I.D.: <u>H230587</u></p> <p>Sample I.D.: _____</p>		<p>MATRIX</p> <p>(G) RAB OR (C) OMP. _____</p> <p># CONTAINERS _____</p> <p>GROUNDWATER _____</p> <p>WASTEWATER _____</p> <p>SOIL _____</p> <p>OIL _____</p> <p>SLUDGE _____</p> <p>OTHER: _____</p> <p>ACID/BASE: _____</p> <p>ICE / COOL _____</p> <p>OTHER: _____</p>	
<p>Relinquished By: _____</p> <p>Relinquished Date: _____</p> <p>Relinquished Time: _____</p>		<p>Received By: _____</p> <p>Received Date: _____</p> <p>Received Time: _____</p>	
<p>Delivered By: (Circle One)</p> <p>Sampler - UPS - Bus - Other: _____</p> <p>Observed Temp. °C: <u>2.8</u></p> <p>Corrected Temp. °C: <u>#1146</u></p> <p>Sample Condition:</p> <p>Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/></p> <p>Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/></p>		<p>CHECKED BY: _____</p> <p>Turnaround Time: _____</p> <p>Thermometer ID #140: _____</p> <p>Correction Factor 0°C: _____</p>	
<p>REMARKS:</p> <p><u>RUSH</u></p>		<p>Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____</p> <p>All Results are emailed. Please provide Email address: _____</p>	



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

December 21, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: THUNDER ROAD FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 11/27/23 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1 6"	H236390-01	Soil	27-Nov-23 00:00	27-Nov-23 17:00
S - 2 6"	H236390-02	Soil	27-Nov-23 00:00	27-Nov-23 17:00
S - 3 6"	H236390-03	Soil	27-Nov-23 00:00	27-Nov-23 17:00
S - 4 6"	H236390-04	Soil	27-Nov-23 00:00	27-Nov-23 17:00
S - 5 6"	H236390-05	Soil	27-Nov-23 00:00	27-Nov-23 17:00
S - 6 6"	H236390-06	Soil	27-Nov-23 00:00	27-Nov-23 17:00
S - 7 2'	H236390-07	Soil	27-Nov-23 00:00	27-Nov-23 17:00
S - 8 2'	H236390-08	Soil	27-Nov-23 00:00	27-Nov-23 17:00
S - 9 2'	H236390-09	Soil	27-Nov-23 00:00	27-Nov-23 17:00
S - 10 2'	H236390-10	Soil	27-Nov-23 00:00	27-Nov-23 17:00
WSW - 1 6"	H236390-11	Soil	27-Nov-23 00:00	27-Nov-23 17:00
WSW - 2 6"	H236390-12	Soil	27-Nov-23 00:00	27-Nov-23 17:00
WSW - 3 2'	H236390-13	Soil	27-Nov-23 00:00	27-Nov-23 17:00
WSW - 4 2'	H236390-14	Soil	27-Nov-23 00:00	27-Nov-23 17:00
ESW - 1 6"	H236390-15	Soil	27-Nov-23 00:00	27-Nov-23 17:00
ESW - 2 6"	H236390-16	Soil	27-Nov-23 00:00	27-Nov-23 17:00
ESW - 3 6"	H236390-17	Soil	27-Nov-23 00:00	27-Nov-23 17:00
ESW - 4 6"	H236390-18	Soil	27-Nov-23 00:00	27-Nov-23 17:00
NSW - 1 6"	H236390-19	Soil	27-Nov-23 00:00	27-Nov-23 17:00
NSW - 2 2'	H236390-20	Soil	27-Nov-23 00:00	27-Nov-23 17:00
SSW - 1 2'	H236390-21	Soil	27-Nov-23 00:00	27-Nov-23 17:00

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

S - 1 6''
H236390-01 (Soil)

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

Chloride	3680		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3112722	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	120 %	71.5-134			3112722	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
DRO >C10-C28*	49.5	10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane	78.6 %	48.2-134			3112802	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane	87.4 %	49.1-148			3112802	MS	28-Nov-23	8015B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

S - 2 6"
H236390-02 (Soil)

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

Chloride	1170		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112722	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			121 %	71.5-134		3112722	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
DRO >C10-C28*	55.8		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			76.5 %	48.2-134		3112802	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			86.0 %	49.1-148		3112802	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

S - 3 6"
H236390-03 (Soil)

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

Chloride	1120		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112722	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			120 %	71.5-134		3112722	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
DRO >C10-C28*	16.9		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			83.4 %	48.2-134		3112802	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			91.6 %	49.1-148		3112802	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

S - 4 6"
H236390-04 (Soil)

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

Chloride	2960		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112722	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %	71.5-134		3112722	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
DRO >C10-C28*	576		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	114		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			77.4 %	48.2-134		3112802	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			103 %	49.1-148		3112802	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

S - 5 6"
H236390-05 (Soil)

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

Chloride	624		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3112722	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		119 %		71.5-134	3112722	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
DRO >C10-C28*	713	10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	160	10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane		79.0 %		48.2-134	3112802	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane		68.7 %		49.1-148	3112802	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

S - 6 6"
H236390-06 (Soil)

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

Chloride	352		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B
Toluene*	<0.050	0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	3112722	JH/	28-Nov-23	8021B
Total BTEX	<0.300	0.300	mg/kg	50	3112722	JH/	28-Nov-23	8021B

Surrogate: 4-Bromofluorobenzene (PID)	118 %	71.5-134	3112722	JH/	28-Nov-23	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B
DRO >C10-C28*	450	10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B
EXT DRO >C28-C36	89.7	10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B

Surrogate: 1-Chlorooctane	76.3 %	48.2-134	3112802	MS	28-Nov-23	8015B
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Surrogate: 1-Chlorooctadecane	101 %	49.1-148	3112802	MS	28-Nov-23	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

S - 7 2'

H236390-07 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112722	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112722	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			120 %	71.5-134		3112722	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
DRO >C10-C28*	76.8		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	14.6		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			76.4 %	48.2-134		3112802	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			87.0 %	49.1-148		3112802	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

S - 8 2'
H236390-08 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
DRO >C10-C28*	74.2		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	13.3		10.0	mg/kg	1	3112802	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			87.1 %	48.2-134		3112802	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			99.1 %	49.1-148		3112802	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

S - 9 2'**H236390-09 (Soil)**

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

Chloride	80.0		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	29-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	29-Nov-23	8021B	
Ethylbenzene*	0.261		0.050	mg/kg	50	3112809	JH/	29-Nov-23	8021B	
Total Xylenes*	0.619		0.150	mg/kg	50	3112809	JH/	29-Nov-23	8021B	
Total BTEX	0.880		0.300	mg/kg	50	3112809	JH/	29-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			133 %	71.5-134		3112809	JH/	29-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	22.4		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	1150		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	QM-07, QR-03
EXT DRO >C28-C36	272		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			99.0 %	48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	49.1-148		3112805	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

S - 10 2'
H236390-10 (Soil)

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

Chloride	1540		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	95.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	22.5		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane		84.2 %		48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane		96.8 %		49.1-148		3112805	MS	28-Nov-23	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

WSW - 1 6"
H236390-11 (Soil)

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

Chloride	4720		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	21.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			92.3 %	48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	49.1-148		3112805	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

WSW - 2 6"
H236390-12 (Soil)

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

Chloride	3000		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	78.9		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	17.2		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane		92.8 %		48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane		106 %		49.1-148		3112805	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

WSW - 3 2'
H236390-13 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	0.064		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	1470		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	389		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			89.6 %	48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	49.1-148		3112805	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

WSW - 4 2'
H236390-14 (Soil)

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

Chloride	176		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	29-Nov-23	8021B	
Toluene*	0.250		0.050	mg/kg	50	3112809	JH/	29-Nov-23	8021B	
Ethylbenzene*	1.11		0.050	mg/kg	50	3112809	JH/	29-Nov-23	8021B	
Total Xylenes*	2.23		0.150	mg/kg	50	3112809	JH/	29-Nov-23	8021B	
Total BTEX	3.58		0.300	mg/kg	50	3112809	JH/	29-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			155 %	71.5-134		3112809	JH/	29-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	128		10.0	mg/kg	1	3112805	MS	29-Nov-23	8015B	
DRO >C10-C28*	6560		10.0	mg/kg	1	3112805	MS	29-Nov-23	8015B	
EXT DRO >C28-C36	1590		10.0	mg/kg	1	3112805	MS	29-Nov-23	8015B	

Surrogate: 1-Chlorooctane			111 %	48.2-134		3112805	MS	29-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			264 %	49.1-148		3112805	MS	29-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

ESW - 1 6"
H236390-15 (Soil)

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

Chloride	6530		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	94.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	33.3		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			95.0 %	48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			107 %	49.1-148		3112805	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

ESW - 2 6"
H236390-16 (Soil)

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

Chloride	2400		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	107		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	27.8		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			93.1 %	48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			117 %	49.1-148		3112805	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

ESW - 3 6"
H236390-17 (Soil)

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

Chloride	528		16.0	mg/kg	4	3112821	HM	28-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	149		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	27.4		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			93.6 %	48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	49.1-148		3112805	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

ESW - 4 6"
H236390-18 (Soil)

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

Chloride	368		16.0	mg/kg	4	3112902	HM	29-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	29-Nov-23	8015B	
DRO >C10-C28*	1810		10.0	mg/kg	1	3112805	MS	29-Nov-23	8015B	
EXT DRO >C28-C36	483		10.0	mg/kg	1	3112805	MS	29-Nov-23	8015B	

Surrogate: 1-Chlorooctane		97.9 %		48.2-134		3112805	MS	29-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane		113 %		49.1-148		3112805	MS	29-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

NSW - 1 6"
H236390-19 (Soil)

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

Chloride	12300		16.0	mg/kg	4	3112902	HM	29-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	168		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	52.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			83.1 %	48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			113 %	49.1-148		3112805	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

NSW - 2 2'
H236390-20 (Soil)

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

Chloride	208		16.0	mg/kg	4	3112902	HM	29-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	67.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	18.1		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			96.6 %	48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	49.1-148		3112805	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

SSW - 1 2'
H236390-21 (Soil)

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

Chloride	112		16.0	mg/kg	4	3112902	HM	29-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Toluene*	0.055		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Ethylbenzene*	0.121		0.050	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total Xylenes*	0.199		0.150	mg/kg	50	3112809	JH/	28-Nov-23	8021B	
Total BTEX	0.376		0.300	mg/kg	50	3112809	JH/	28-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3112809	JH/	28-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
DRO >C10-C28*	100		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	
EXT DRO >C28-C36	16.7		10.0	mg/kg	1	3112805	MS	28-Nov-23	8015B	

Surrogate: 1-Chlorooctane			96.1 %	48.2-134		3112805	MS	28-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	49.1-148		3112805	MS	28-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3112821 - 1:4 DI Water**Blank (3112821-BLK1)**

Prepared & Analyzed: 28-Nov-23

Chloride	ND	16.0	mg/kg						
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LCS (3112821-BS1)

Prepared & Analyzed: 28-Nov-23

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (3112821-BSD1)

Prepared & Analyzed: 28-Nov-23

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	
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Batch 3112902 - 1:4 DI Water**Blank (3112902-BLK1)**

Prepared & Analyzed: 29-Nov-23

Chloride	ND	16.0	mg/kg						
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LCS (3112902-BS1)

Prepared & Analyzed: 29-Nov-23

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (3112902-BSD1)

Prepared & Analyzed: 29-Nov-23

Chloride	448	16.0	mg/kg	400	112	80-120	7.41	20	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3112722 - Volatiles**Blank (3112722-BLK1)**

Prepared: 27-Nov-23 Analyzed: 28-Nov-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)	0.0599		mg/kg	0.0500		120	71.5-134			

LCS (3112722-BS1)

Prepared: 27-Nov-23 Analyzed: 28-Nov-23

Benzene	1.97	0.050	mg/kg	2.00		98.5	82.8-130			
Toluene	2.08	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.36	0.100	mg/kg	4.00		109	89-129			
o-Xylene	2.10	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.46	0.150	mg/kg	6.00		108	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0577		mg/kg	0.0500		115	71.5-134			

LCS Dup (3112722-BSD1)

Prepared: 27-Nov-23 Analyzed: 28-Nov-23

Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130	2.46	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	86-128	2.86	15.9	
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128	2.10	16	
m,p-Xylene	4.38	0.100	mg/kg	4.00		109	89-129	0.538	16.2	
o-Xylene	2.12	0.050	mg/kg	2.00		106	86.1-125	0.784	16.7	
Total Xylenes	6.50	0.150	mg/kg	6.00		108	88.2-128	0.618	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0561		mg/kg	0.0500		112	71.5-134			

Batch 3112809 - Volatiles**Blank (3112809-BLK1)**

Prepared & Analyzed: 28-Nov-23

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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3112809 - Volatiles**Blank (3112809-BLK1)**

Prepared & Analyzed: 28-Nov-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500		105	71.5-134			

LCS (3112809-BS1)

Prepared & Analyzed: 28-Nov-23

Benzene	2.23	0.050	mg/kg	2.00		111	82.8-130			
Toluene	2.20	0.050	mg/kg	2.00		110	86-128			
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128			
m,p-Xylene	4.76	0.100	mg/kg	4.00		119	89-129			
o-Xylene	2.10	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.87	0.150	mg/kg	6.00		114	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	71.5-134			

LCS Dup (3112809-BSD1)

Prepared & Analyzed: 28-Nov-23

Benzene	2.32	0.050	mg/kg	2.00		116	82.8-130	4.22	15.8	
Toluene	2.30	0.050	mg/kg	2.00		115	86-128	4.60	15.9	
Ethylbenzene	2.26	0.050	mg/kg	2.00		113	85.9-128	4.75	16	
m,p-Xylene	4.97	0.100	mg/kg	4.00		124	89-129	4.20	16.2	
o-Xylene	2.20	0.050	mg/kg	2.00		110	86.1-125	4.64	16.7	
Total Xylenes	7.17	0.150	mg/kg	6.00		119	88.2-128	4.33	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3112802 - General Prep - Organics**Blank (3112802-BLK1)**

Prepared & Analyzed: 28-Nov-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	39.1		mg/kg	50.0		78.2	48.2-134			
Surrogate: 1-Chlorooctadecane	42.8		mg/kg	50.0		85.7	49.1-148			

LCS (3112802-BS1)

Prepared & Analyzed: 28-Nov-23

GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	199	10.0	mg/kg	200		99.4	66.5-118			
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.6-123			
Surrogate: 1-Chlorooctane	41.1		mg/kg	50.0		82.2	48.2-134			
Surrogate: 1-Chlorooctadecane	40.8		mg/kg	50.0		81.7	49.1-148			

LCS Dup (3112802-BSD1)

Prepared & Analyzed: 28-Nov-23

GRO C6-C10	205	10.0	mg/kg	200		103	66.4-123	0.580	17.7	
DRO >C10-C28	203	10.0	mg/kg	200		102	66.5-118	2.22	21	
Total TPH C6-C28	408	10.0	mg/kg	400		102	77.6-123	1.40	18.5	
Surrogate: 1-Chlorooctane	41.7		mg/kg	50.0		83.5	48.2-134			
Surrogate: 1-Chlorooctadecane	41.9		mg/kg	50.0		83.8	49.1-148			

Batch 3112805 - General Prep - Organics**Blank (3112805-BLK1)**

Prepared & Analyzed: 28-Nov-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	47.3		mg/kg	50.0		94.7	48.2-134			
Surrogate: 1-Chlorooctadecane	54.5		mg/kg	50.0		109	49.1-148			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
21-Dec-23 11:38

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 3112805 - General Prep - Organics**LCS (3112805-BS1)**

Prepared & Analyzed: 28-Nov-23

GRO C6-C10	206	10.0	mg/kg	200		103	66.4-123			
DRO >C10-C28	193	10.0	mg/kg	200		96.4	66.5-118			
Total TPH C6-C28	399	10.0	mg/kg	400		99.8	77.6-123			
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0		108	48.2-134			
Surrogate: 1-Chlorooctadecane	55.7		mg/kg	50.0		111	49.1-148			

LCS Dup (3112805-BS1)

Prepared & Analyzed: 28-Nov-23

GRO C6-C10	207	10.0	mg/kg	200		103	66.4-123	0.175	17.7	
DRO >C10-C28	194	10.0	mg/kg	200		97.2	66.5-118	0.777	21	
Total TPH C6-C28	401	10.0	mg/kg	400		100	77.6-123	0.466	18.5	
Surrogate: 1-Chlorooctane	54.3		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	57.5		mg/kg	50.0		115	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental		BILL TO		ANALYSIS REQUEST																																																													
Project Manager: Chris Jones		P.O. #:																																																															
Address: 1601 N. Turner St., Ste 500		Company: Spur																																																															
City: Hobbs		Attn: Doreen Weller																																																															
Phone #: 575-964-7814		Address:																																																															
Fax #:		City:																																																															
Project #:		State:																																																															
Project Name: Thunder Road Federal		Zip:																																																															
Project Location: Eddy		Phone #:																																																															
Sampler Name: Andy Pena		Fax #:																																																															
FOR LAB USE ONLY		PRESERV		SAMPLING																																																													
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		Chlorides												TPH E**												BTEx											
H236390		S-1 6"																								11/27																																							
1 S-1 6"																																																																	
2 S-2 6"																																																																	
3 S-3 6"																																																																	
4 S-4 6"																																																																	
5 S-5 6"																																																																	
6 S-6 6"																																																																	
7 S-7 6"																																																																	
8 S-8 6"																																																																	
9 S-9 6"																																																																	
10 S-10 6"																																																																	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising under this contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By: <i>Chris Jones</i>		Date: 11/27		Received By: <i>Doreen Weller</i>		Date: 11/27		Time: 11:27		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: (Initials) <i>DW</i>		REMARKS: Email results to Chris Jones * Customer requested Depth change. 4' - 12/21/23																																																	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>0.8c</i>		#140																																																															

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Chris Jones				P.O. #:																																					
Address: 1601 N. Turner St., Ste 500				Company: Spur																																					
City: Hobbs				Attn: Bradley Weller																																					
Phone #: 575-964-7814				Address:																																					
Fax #:				City:																																					
Project #: Project Owner: Spur				State: Zip:																																					
Project Name: Thunder Road Federal				Phone #:																																					
Project Location: Eddy				Fax #:																																					
Sampler Name: Angel Pena																																									
FOR LAB USE ONLY																																									
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													
H236390		WSW-1 6"																								11/27				Chlorides											
11		WSW-2 6"																												TP+1 Ext.											
12		WSW-3 2'																												B+ex.											
13		WSW-4 2'																																							
14		ESW-1 6"																																							
15		ESW-2 6"																																							
16		ESW-3 6"																																							
17		ESW-4 6"																																							
18		NSW-1 6"																																							
19		NSW-2 2'																																							
20																																									
<p>PLEASE NOTE: Liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above listed reasons or otherwise.</p>																																									
Relinquished By: [Signature]				Date: 11/27				Received By: [Signature]				Time: 1700				REMARKS:																									
Delivered By: (Circle One)				Sample Condition				CHECKED BY: (Initials)																																	
Sampler - UPS - Bus - Other: 1.8°C				Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				#140																																	

+ 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

[illegible]



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

December 22, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: THUNDER ROAD FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 12/20/23 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/20/2023	Sampling Date:	12/08/2023
Reported:	12/22/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 9 2 1/2' (H236800-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2023	ND	2.23	111	2.00	0.388		
Toluene*	<0.050	0.050	12/21/2023	ND	2.25	113	2.00	0.650		
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.25	112	2.00	0.875		
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.70	112	6.00	0.854		
Total BTX	<0.300	0.300	12/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	12/21/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	215	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/21/2023	ND	204	102	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2023
Reported: 12/22/2023
Project Name: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 3 2' (H236800-02)

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	12/21/2023	ND	2.23	111	2.00	0.388	
Toluene*	<0.050	0.050	12/21/2023	ND	2.25	113	2.00	0.650	
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.25	112	2.00	0.875	
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.70	112	6.00	0.854	
Total BTEx	<0.300	0.300	12/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	12/21/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	215	108	200	1.35	
DRO >C10-C28*	17.5	10.0	12/21/2023	ND	204	102	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental

Project Manager: Chris Jones

Address: 1601 N. Turner St., Ste 500

City: Hobbs State: NM zip: 88240

Phone #: 575-964-7814

Fax #:

Project #: Project Owner: Spur

Project Name: Thunder Road Federal

Project Location: Eddy

Sampler Name: Jeremy Moore

FOR LAB USE ONLY

P.O. #:

Company: Spur

Attn: Bradley Wolden

Address:

City:

State: Zip:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

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

11/08

1

TPH Ext.

BTEX

Chlorides

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Relinquished By:

Date:

Time:

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date:

Time:

Received By:

REMARKS:

Email results to Chris Jones

X at the wash - samples expiring

Sample Condition

Cool Intact

Yes No

Checked BY:

Initials

Signature



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

December 29, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: THUNDER ROAD FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/28/23 12:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/28/2023	Sampling Date:	12/15/2023
Reported:	12/29/2023	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: ESW - 4 6" (H236855-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2023	ND	227	114	200	0.331	
DRO >C10-C28*	<10.0	10.0	12/28/2023	ND	215	108	200	0.884	
EXT DRO >C28-C36	<10.0	10.0	12/28/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	86.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	101 %	49.1-148							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Paragon Environmental Project Manager: Cason Spurlock Address: 5002 Carriage Rd City: Hobbs State: NM Zip: 88242 Phone #: 575-631-6977 Fax #: Project #: Project Name: Thunder Good Federal Bakery Project Location: Eddy Sampler Name: Angel Perez FOR LAB USE ONLY				BILL TO P.O. #: Company: Spur Attn: Bradley Walker Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST					
Lab I.D. 1830855 1		Sample I.D. ESW-4 6		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		MATRIX ACID/BASE: ICE / COOL OTHER:		PRESERV SAMPLING		DATE 12/15		TIME 1:21 PM	
RELEASE 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: R.F.M.		Date: 12/15/22		Received By: S. Rodriguez		Time: 1:50		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By:		Date:		Received By:		Time:		REMARKS:		Email results to Chris Jones. Buson at H2!			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		0.2c #140		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials)		† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326					



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

May 16, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: THUNDER ROAD FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 05/13/24 11:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/13/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 1 3' (H242592-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.90	94.8	2.00	3.44		
Toluene*	<0.050	0.050	05/15/2024	ND	1.92	96.0	2.00	3.15		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.89	94.6	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.95	99.2	6.00	2.58		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	05/15/2024	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	05/14/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/13/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 2 3' (H242592-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.90	94.8	2.00	3.44		
Toluene*	<0.050	0.050	05/15/2024	ND	1.92	96.0	2.00	3.15		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.89	94.6	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.95	99.2	6.00	2.58		
Total BTEx	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	05/15/2024	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	05/14/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/13/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: NSW 3' (H242592-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.90	94.8	2.00	3.44	
Toluene*	<0.050	0.050	05/15/2024	ND	1.92	96.0	2.00	3.15	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.89	94.6	2.00	2.65	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.95	99.2	6.00	2.58	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/15/2024	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	05/14/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/13/2024
Reported: 05/16/2024
Project Name: THUNDER ROAD FEDERAL
Project Number: NONE GIVEN
Project Location: SPUR - EDDY COUNTY

Sampling Date: 05/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: ESW 3' (H242592-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.90	94.8	2.00	3.44	
Toluene*	<0.050	0.050	05/15/2024	ND	1.92	96.0	2.00	3.15	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.89	94.6	2.00	2.65	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.95	99.2	6.00	2.58	
Total BTX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	05/15/2024	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	05/14/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/13/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: SSW 3' (H242592-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.90	94.8	2.00	3.44	
Toluene*	<0.050	0.050	05/15/2024	ND	1.92	96.0	2.00	3.15	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.89	94.6	2.00	2.65	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.95	99.2	6.00	2.58	
Total BTX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/15/2024	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	05/14/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/13/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: WSW 3' (H242592-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.90	94.8	2.00	3.44		
Toluene*	<0.050	0.050	05/15/2024	ND	1.92	96.0	2.00	3.15		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.89	94.6	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.95	99.2	6.00	2.58		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	05/15/2024	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	05/14/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental
Project Manager: Chris Jones

Address: 1601 N. Turner St., Ste 500
City: Hobbs
Phone #: 575-964-7814 State: NM Zip: 88240

Project #: Fax #:

Project Name: Thunder Road Federal
Project Location: Folly
Project Owner: Spur

Sampler Name: Jeremy Warner

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Spur
Attn: Bradley Melder

Address:

City: State: Zip:

Phone #: Fax #:

PRESERV. SAMPLING

Lab I.D. Sample I.D.

1 S-1 S
2 S-2 S
3 S-3 S
4 S-4 S
5 S-5 S
6 S-6 S

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

Chlorides
TPH Ext.
BTEX

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this 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: 05/13

Received By:

Time: 1118

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

8.1c

#140

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY:
(Initials)
ap.

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



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

May 28, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: THUNDER ROAD FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 05/21/24 15:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/21/2024	Sampling Date:	05/20/2024
Reported:	05/28/2024	Sampling Type:	Soil
Project Name:	THUNDER ROAD FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 2 3' 1/2 (H242815-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	2.16	108	2.00	2.66	
Toluene*	<0.050	0.050	05/22/2024	ND	2.24	112	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	1.32	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.70	112	6.00	1.37	
Total BTEx	<0.300	0.300	05/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/22/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	210	105	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	209	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

*=Accredited Analyte

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

Caley D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

From: [Chris Jones](#)
To: [Wells, Shelly, EMNRD](#)
Subject: [EXTERNAL] Re: NAPP2326255232 THUNDER ROAD FEDERAL BATTERY Resubmittal Question
Date: Monday, June 10, 2024 3:50:04 PM

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Shelly,

Sorry, I thought I had added it, it was on the tail end of the spill in the 3.5 feet dig out area.

Thank You,

Chris Jones
Environmental Professional
1601 N. Turner Ste. 500
Hobbs, NM 88240
chris@paragonenvironmental.net
575-631-6977 cell



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

From: "Wells, Shelly, EMNRD" <Shelly.Wells@emnrd.nm.gov>
Date: Monday, June 10, 2024 at 3:45 PM
To: "chris@paragonenvironmental.net" <chris@paragonenvironmental.net>
Subject: NAPP2326255232 THUNDER ROAD FEDERAL BATTERY Resubmittal Question

Good afternoon Chris,

Thank you for addressing most of my rejections from the previous report. I am still confused as to where S-10 was located as it does not appear on any of the figures provided and it was not addressed in the remediation summary. Please respond to this email by end of day on 6/11/24.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 351424

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	351424
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2326255232
Incident Name	NAPP2326255232 THUNDER ROAD FEDERAL BATTERY @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	THUNDER ROAD FEDERAL BATTERY
Date Release Discovered	09/18/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Human Error Transport Crude Oil Released: 7 BBL Recovered: 0 BBL Lost: 7 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	OIL HAULER TANKER TRAILER RAN OVER RELEASING OIL ONTO THE LOCATION PAD

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QUESTIONS, Page 2

Action 351424

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	351424
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

Initial Response

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 06/06/2024
--	---

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QUESTIONS, Page 3

Action 351424

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	351424
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1000 (ft.) and ½ (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	12300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	8278
GRO+DRO (EPA SW-846 Method 8015M)	6688
BTEX (EPA SW-846 Method 8021B or 8260B)	3.6
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	09/26/2023
On what date will (or did) the final sampling or liner inspection occur	05/21/2024
On what date will (or was) the remediation complete(d)	05/21/2024
What is the estimated surface area (in square feet) that will be reclaimed	885
What is the estimated volume (in cubic yards) that will be reclaimed	106
What is the estimated surface area (in square feet) that will be remediated	885
What is the estimated volume (in cubic yards) that will be remediated	106

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 351424

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	351424
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Sundance Services, Inc [fKJ1600527371]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 06/06/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 351424

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	351424
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I

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QUESTIONS, Page 6

Action 351424

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	351424
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	341568
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/10/2024
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	380

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	885
What was the total volume (cubic yards) remediated	106
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	885
What was the total volume (in cubic yards) reclaimed	106
Summarize any additional remediation activities not included by answers (above)	n/a

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 06/06/2024
--	--

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QUESTIONS, Page 7

Action 351424

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 351424
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 351424

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 351424
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/10/2024