

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>120.000</u>	<u>42.000</u>	<u>1.500</u>
Cubic Feet Impacted		<u>630.000</u>
Barrels		<u>112.20</u>
Soil Type		Clay/Sand
Bbls Assuming 100% Saturation		<u>16.83</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		16.90000

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)	120
Width (ft)	42
Depth (in)	1.500









May 10, 2024

NMOCD District 2
Mike Bratcher
Artesia, NM 88210

Bureau of Land Management
Crisha Morgan
Carlsbad Field Office

Re: Site Assessment, Remediation, and Closure Request
Pearsall SWD Gathering Line
API No. N/A
GPS: Latitude 32.816418 Longitude -103.781059
UL "I", Sec. 20, T17S, R32E
Eddy County, NM
NMOCD Ref. No. nAPP2113148964

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment, conduct remediation activities for the release site known as the Pearsall SWD Gathering Line (Pearsall). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	Volume of Release:	17 bbls
		Volume Recovered:	5 bbls
Source of Release:	Flow Line	Date of Release:	4/30/21
Was Immediate Notice Given?	No	If, Yes, to Whom?	N/A
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	Federal	Mineral Owner:	Federal
The release was caused by a split in the flowline. The release impacted the lease road and the adjacent pasture. Vacuum trucks were immediately dispatched to recover all standing fluids.			

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- > 5 Mile
- Any lakebed, sinkhole, or playa lake- 1-5 mi
- An occupied permanent residence, school, hospital, institution, or church- 1-5 mi
- A spring or a private domestic fresh water well used by less than 5 households for domestic or stock watering purposes- 1-5 mi
- Any other fresh water well or spring- 1-5 mi
- Incorporated municipal boundaries or a defined municipal fresh water well field- 1-5 mi
- A wetland- 1000'-1/2 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- Yes

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the 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). The soil in this area is made up of both Kermit-Berino Fine Sands and Kermit Soils / Dune Land, with 0 to 12 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are excessively drained.

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

INITIAL SITE ASSESSMENT

On August 24th, 2022, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples in the area where the spill had come out of the flow line and flowed along the lease road and into the pasture. Eight (8) soil samples were collected in this area in an effort to determine the vertical extent of soil impact. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

8-24-22 Sample Results

NMOC Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 8-24-22		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	0-6"	ND	ND	ND	ND	ND	ND	32
	1'	ND	ND	ND	ND	ND	ND	32
	2'	ND	ND	ND	ND	ND	ND	304
	3'	ND	ND	ND	ND	ND	ND	336
	4'	ND	ND	ND	ND	ND	ND	352
S-2	0-6"	ND	ND	ND	ND	ND	ND	80
	1'	ND	ND	ND	ND	ND	ND	64
	2'	ND	ND	ND	ND	ND	ND	80
	3'	ND	ND	ND	ND	ND	ND	96
	4'	ND	ND	ND	ND	ND	ND	416
S-3	0-6"	ND	ND	ND	ND	ND	ND	64
	1' REFUSAL	ND	ND	ND	ND	ND	ND	96
S-4	0-6"	ND	ND	ND	ND	ND	ND	128
	1'	ND	ND	ND	ND	ND	ND	112
	2'	ND	ND	ND	ND	ND	ND	112
	3' REFUSAL	ND	ND	ND	ND	ND	ND	208
S-5	0-6"	ND	ND	ND	ND	ND	ND	64
	1'	ND	ND	ND	ND	ND	ND	112
	2'	ND	ND	ND	ND	ND	ND	64
	3'	ND	ND	ND	ND	ND	ND	112
	4'	ND	ND	ND	ND	ND	ND	112
S-6	0-6"	ND	ND	ND	ND	ND	ND	64
	1'	ND	ND	ND	ND	ND	ND	32
	2'	ND	ND	ND	ND	ND	ND	80
	3'	ND	ND	ND	ND	ND	ND	96
	4'	ND	ND	ND	ND	ND	ND	80
S-7	0-6"	ND	ND	ND	ND	ND	ND	32
	1'	ND	ND	ND	ND	ND	ND	16
	2'	ND	ND	ND	ND	ND	ND	48
	3'	ND	ND	ND	ND	ND	ND	32
	4'	ND	ND	ND	ND	ND	ND	32
S-8	0-6"	ND	ND	ND	ND	ND	ND	32
	1'	ND	ND	ND	ND	ND	ND	16
	2'	ND	ND	ND	ND	ND	ND	32
	3'	ND	ND	ND	ND	ND	ND	16
	4'	ND	ND	ND	ND	ND	ND	16

(ND) Analyte Not Detected

A Site Map is provided in Figure #1.

REMEDIATION ACTIVITIES

These samples returned clean since another company had cleaned this spill up in the past using chemicals. However, the NMOCD rejected this closure due to chemical remediation not being approved, so knowing this, we decided to move forward with digging out and hauling off the old spill area.

On March 18th, 2024, Paragon mobilized personnel and heavy equipment to conduct remedial activities. Based on the site characteristics and field observations made during the site assessment, the following details the remedial activities we conducted to advance the Release Site toward an NMOCD-approved site closure.

Our remediation began by excavating in the areas from S-1 to S-8 down to 1' BGS. The spill path was approximately 1200 feet long, ranging from 6" to 1.5' wide. The pasture area measured approximately 300 S/F. We excavated approximately 160 C/Y from this project. An email notification was sent to the NMOCD prior to obtaining confirmation samples. The bottom samples were representative of no more than 200 sq/ft, and the sidewall samples were obtained every 50 feet. The results of this sampling event are in the following data table.

3-20-24 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 3-20-24	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
ESW - 1 1'	ND	ND	ND	ND	ND	0	96
ESW - 2 1'	ND	ND	ND	ND	ND	0	80
ESW - 3 1'	ND	ND	ND	ND	ND	0	144
NSW - 1 1'	ND	ND	ND	ND	ND	0	48
NSW - 10 1'	ND	ND	ND	16.6	15.9	32.5	64
NSW - 11 1'	ND	ND	ND	ND	ND	0	64
NSW - 12 1'	ND	ND	ND	ND	ND	0	48
NSW - 13 1'	ND	ND	ND	ND	ND	0	64
NSW - 14 1'	ND	ND	ND	ND	ND	0	48
NSW - 2 1'	ND	ND	ND	ND	ND	0	48
NSW - 3 1'	ND	ND	ND	11	ND	11	64
NSW - 4 1'	ND	ND	ND	ND	ND	0	176
NSW - 5 1'	ND	ND	ND	ND	ND	0	32
NSW - 6 1'	ND	ND	ND	17.3	17.1	34.4	80
NSW - 7 1'	ND	ND	ND	ND	ND	0	64
NSW - 8 1'	ND	ND	ND	ND	ND	0	16
NSW - 9 1'	ND	ND	ND	ND	ND	0	64
S - 1 1'	ND	ND	ND	ND	ND	0	64
S - 2 1'	ND	ND	ND	ND	ND	0	48
S - 3 1'	ND	ND	ND	ND	ND	0	64
S - 4 1'	ND	ND	ND	ND	ND	0	80
S - 5 1'	ND	ND	ND	ND	ND	0	32
S - 6 1'	ND	ND	ND	ND	ND	0	32
S - 7 1'	ND	ND	ND	14.7	ND	14.7	96
S - 8 1'	ND	ND	ND	ND	ND	0	64
S - 9 1'	ND	ND	ND	ND	ND	0	336
SSW - 1 1'	ND	ND	ND	ND	ND	0	160
SSW - 10 1'	ND	ND	ND	ND	ND	0	64
SSW - 11 1'	ND	ND	ND	ND	ND	0	48
SSW - 12 1'	ND	ND	ND	ND	ND	0	16
SSW - 13 1'	ND	ND	ND	ND	ND	0	96

SSW - 14 1'	ND	ND	ND	ND	ND	0	64
SSW - 2 1'	ND	ND	ND	ND	ND	0	16
SSW - 3 1'	ND	ND	ND	ND	ND	0	64
SSW - 4 1'	ND	ND	ND	ND	ND	0	48
SSW - 5 1'	ND	ND	ND	ND	ND	0	48
SSW - 6 1'	ND	ND	ND	ND	ND	0	64
SSW - 7 1'	ND	ND	ND	17.6	ND	17.6	48
SSW - 8 1'	ND	ND	ND	ND	ND	0	48
SSW - 9 1'	ND	ND	ND	ND	ND	0	48
WSW - 1 1'	ND	ND	ND	ND	ND	0	16
WSW - 2 1'	ND	ND	ND	ND	ND	0	32
WSW - 3 1'	ND	ND	ND	38.6	ND	38.6	64
NSW - 15 1'	ND	ND	ND	ND	ND	0	64
NSW - 16 1'	ND	ND	ND	ND	ND	0	48
NSW - 17 1'	ND	ND	ND	ND	ND	0	32
NSW - 18 1'	ND	ND	ND	ND	ND	0	32
NSW - 19 1'	ND	ND	ND	ND	ND	0	80
NSW - 20 1'	ND	ND	ND	ND	ND	0	64
NSW - 21 1'	ND	ND	ND	ND	ND	0	112
NSW - 22 1'	ND	ND	ND	ND	ND	0	80
NSW - 23 1'	ND	ND	ND	86.3	85.5	171.8	112
NSW - 24 1'	ND	ND	ND	ND	ND	0	96
NSW - 25 1'	ND	ND	ND	ND	ND	0	80
NSW - 26 1'	ND	ND	ND	11.6	10.4	22	80
SSW - 15 1'	ND	ND	ND	ND	ND	0	96
SSW - 16 1'	ND	ND	ND	ND	ND	0	80
SSW - 17 1'	ND	ND	ND	ND	ND	0	48
SSW - 18 1'	ND	ND	ND	ND	ND	0	80
SSW - 19 1'	ND	ND	ND	ND	ND	0	32
SSW - 20 1'	ND	ND	ND	ND	ND	0	80
SSW - 21 1'	ND	ND	ND	ND	ND	0	64
SSW - 22 1'	ND	ND	ND	ND	ND	0	48
SSW - 23 1'	ND	ND	ND	ND	ND	0	112
SSW - 24 1'	ND	ND	ND	36.3	34.4	70.7	128
SSW - 25 1'	ND	ND	ND	ND	ND	0	128
SSW - 26 1'	ND	ND	ND	ND	ND	0	80

(ND) Analyte Not Detected

Upon receiving these sample results, an additional 6 inches was removed from the sidewall of NSW-23. The results of this event are in the following data table.

5-1-24 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 5-1-24	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
NSW - 23 1'	ND	ND	ND	ND	ND	0	32

(ND) Analyte Not Detected

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

CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2113148964, be closed. Spur has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

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

Respectfully,


Tristan Jones
Project Coordinator
Paragon Environmental, LLC




Chris Jones
Environmental Professional
Paragon Environmental, LLC



Attachments

Figures:

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

Appendices:

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





Figures:

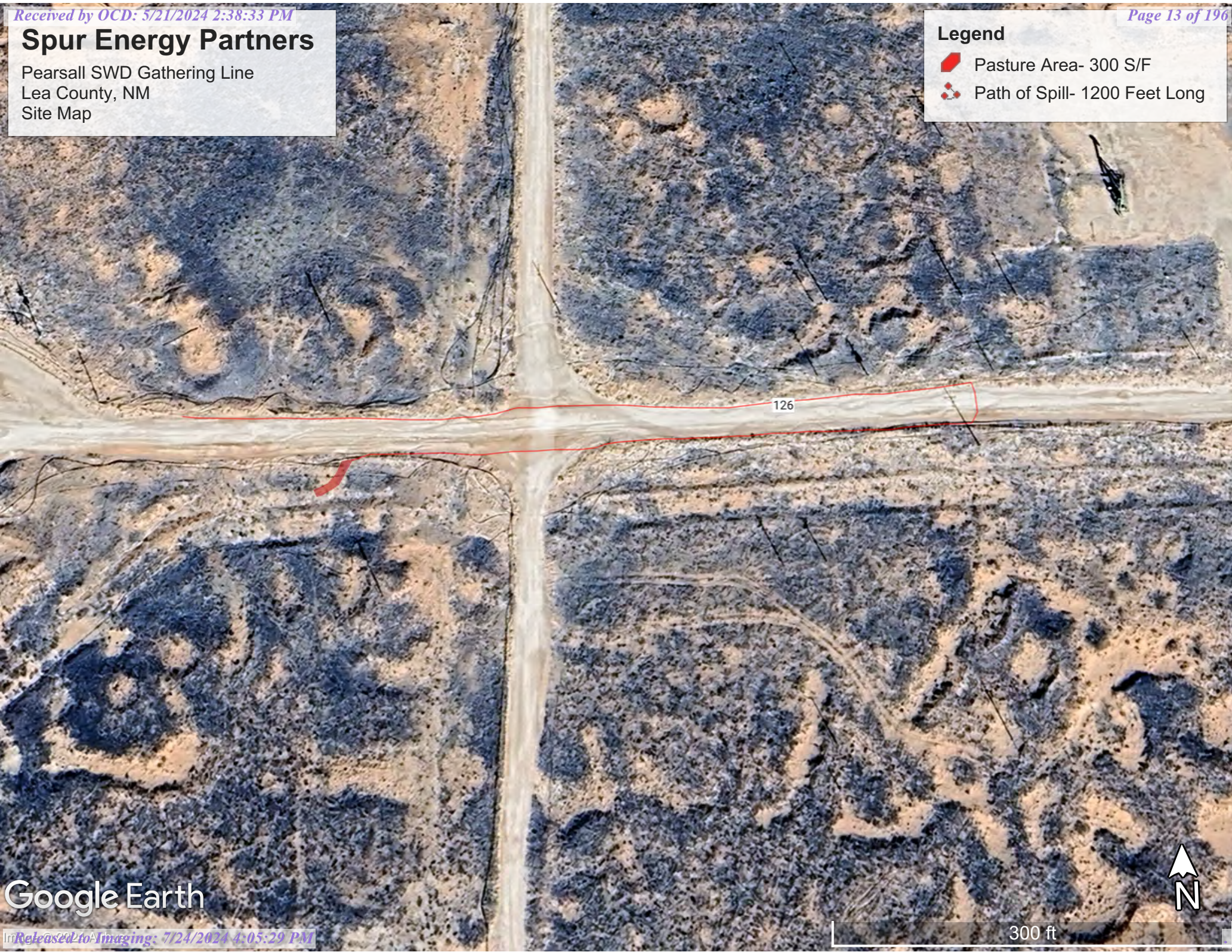
- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Maps

Spur Energy Partners

Pearsall SWD Gathering Line
Lea County, NM
Site Map

Legend

-  Pasture Area- 300 S/F
-  Path of Spill- 1200 Feet Long



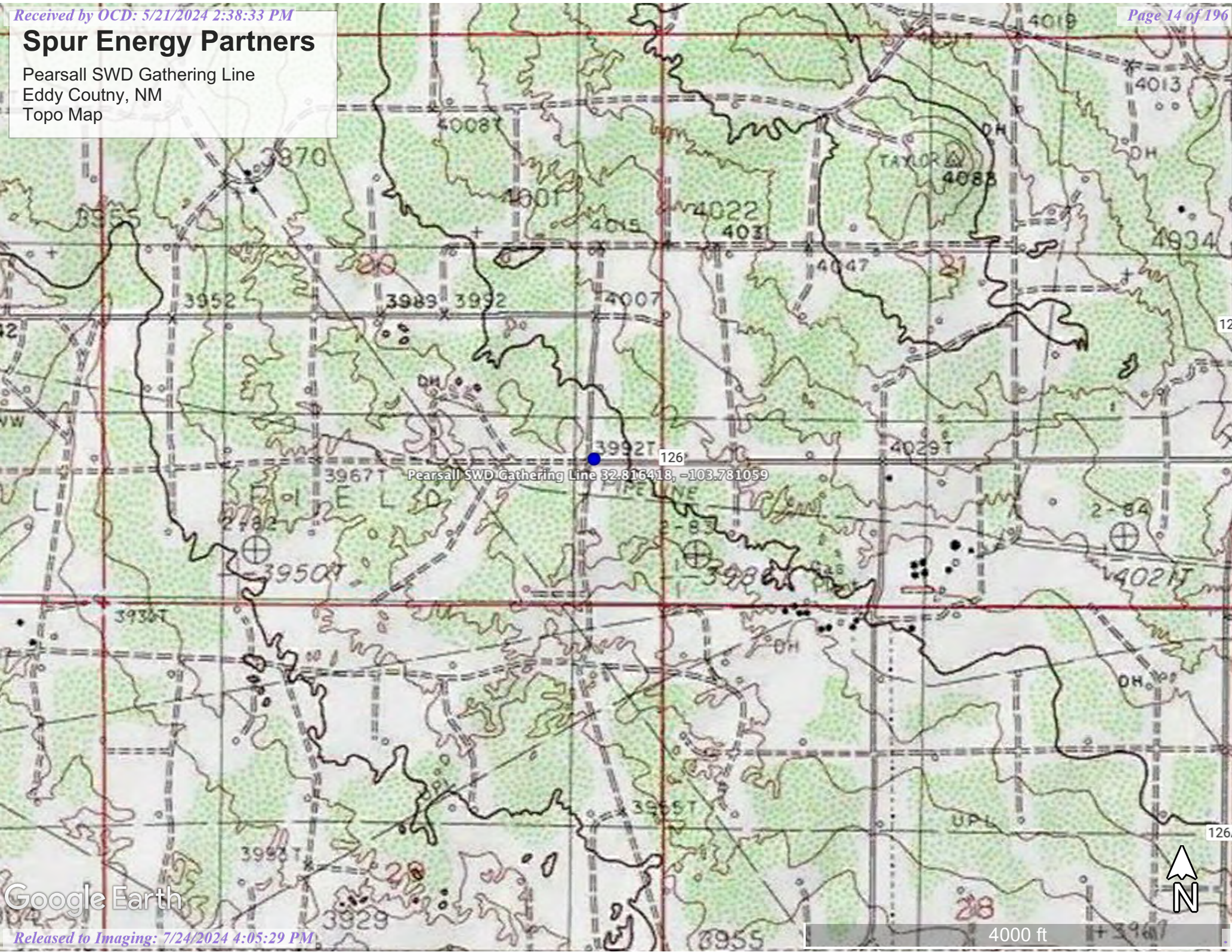
126

Google Earth

300 ft

Spur Energy Partners

Pearsall SWD Gathering Line
Eddy Coutny, NM
Topo Map



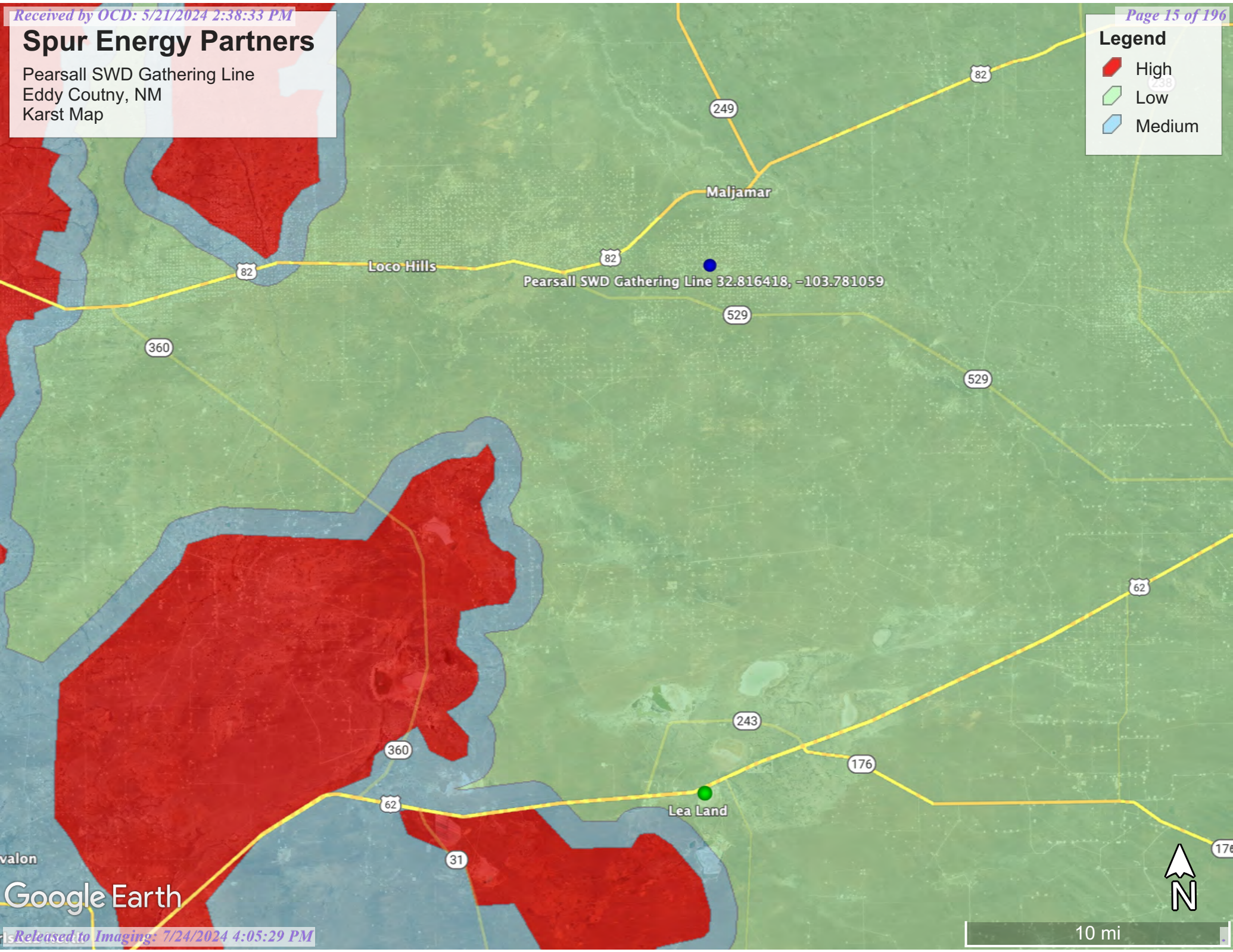
Google Earth

Spur Energy Partners

Pearsall SWD Gathering Line
Eddy Coutny, NM
Karst Map

Legend

- High
- Low
- Medium



Spur Energy Partners

Pearsall SWD Gathering Line
Eddy Coutny, NM
Aerial Map

Pearsall SWD Gathering Line 32.816418, -103.781059

126A

126

529

529

529

1 mi

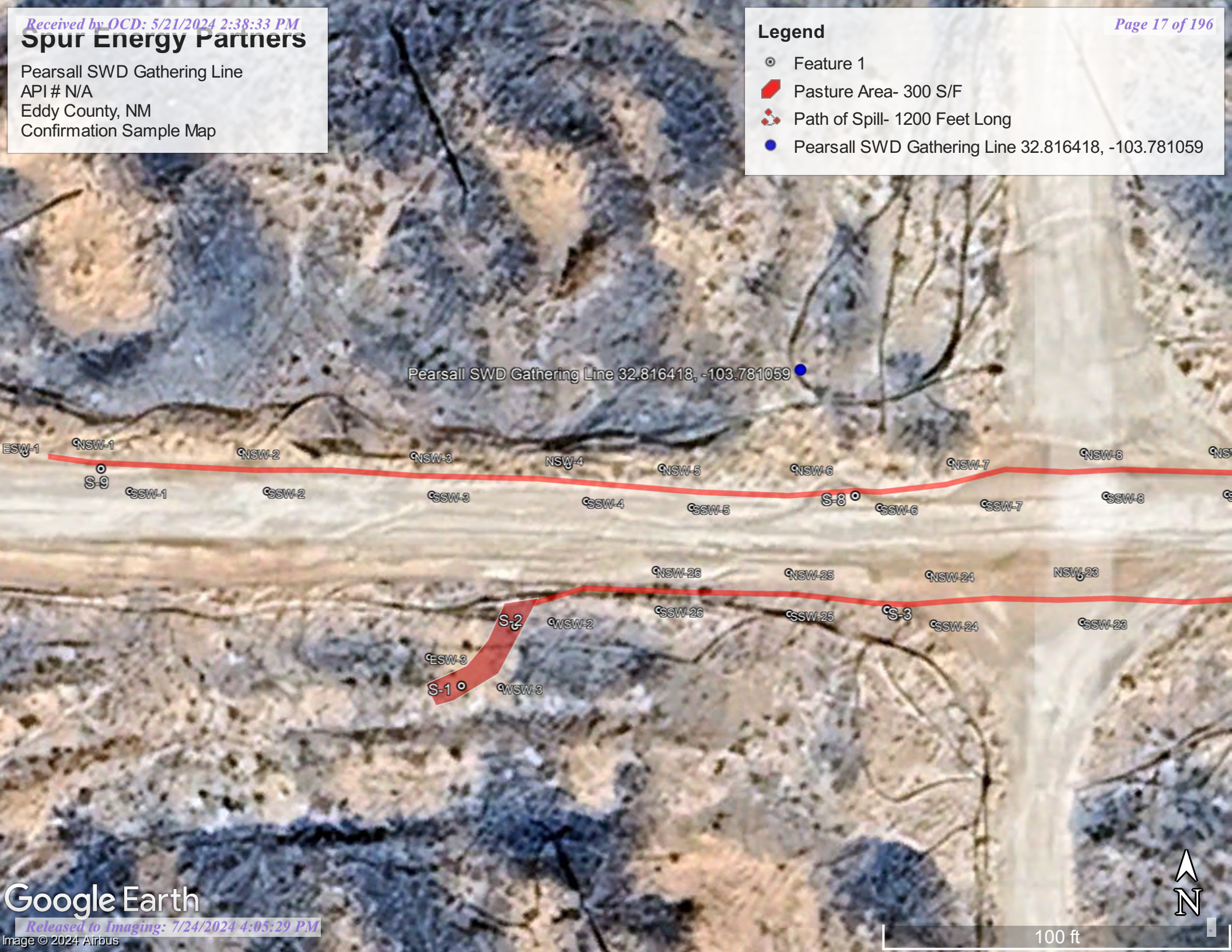


Spur Energy Partners

Pearsall SWD Gathering Line
API # N/A
Eddy County, NM
Confirmation Sample Map

Legend

- Feature 1
- Pasture Area- 300 S/F
- Path of Spill- 1200 Feet Long
- Pearsall SWD Gathering Line 32.816418, -103.781059



Spur Energy Partners

Pearsall SWD Gathering Line
API # N/A
Eddy County, NM
Confirmation Sample Map

Legend

- Feature 1
- Pasture Area- 300 S/F
- Path of Spill- 1200 Feet Long
- Pearsall SWD Gathering Line 32.816418, -103.781059





Appendix A
Referenced Water Data:

New Mexico State of Engineers Office



(In feet)

Average Depth to Water:	82 feet
Minimum Depth:	75 feet
Maximum Depth:	92 feet

ReportProxy?queryData=%7B"report"%3A"waterColumn"%2C%0A"BasinDiv"%3A"false"%2C%0A"UsageDiv"%3A"false"%2C%0A"radiusBox"%3A"radius"%2C%0A"ut... 1/2



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 12020	POD1	2	2	1	28	17S	32E	614828	3630954

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY
Driller Name: WHITE, JOHN (LD)
Drill Start Date: 09/24/2013 **Drill Finish Date:** 09/25/2013 **Plug Date:**
Log File Date: 10/07/2013 **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:**
Casing Size: 2.00 **Depth Well:** 120 feet **Depth Water:** 81 feet

Water Bearing Stratifications:

Top	Bottom	Description
70	111	Sandstone/Gravel/Conglomerate
111	120	Shale/Mudstone/Siltstone

Casing Perforations:

Top	Bottom
75	110

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

7/26/23 1:23 PM

POINT OF DIVERSION SUMMARY



Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent

Dune land: 44 percent

Minor components: 10 percent

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

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear, concave

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand

C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 3 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Description of Dune Land**Setting**

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear, concave

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand

C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A

Hydric soil rating: No

Minor Components**Palomas**

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Pyote

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q

Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent

Berino and similar soils: 35 percent

Minor components: 15 percent

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

Description of Kermit

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand

H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC005NM - Deep Sand

Hydric soil rating: No

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

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 50 inches: fine sandy loam
H3 - 50 to 58 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 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

Data Source Information

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

National Flood Hazard Layer FIRMette



103°47'11"W 32°49'14"N



Legend

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

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

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

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

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

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		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 9/20/2022 at 1:01 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:

OCD Notification

Photographic Documentation

Tuesday, September 20, 2022 at 12:09:27 Central Daylight Time

Subject: RE: [EXTERNAL] NAPP2113148964
Date: Monday, August 22, 2022 at 11:34:44 AM Central Daylight Time
From: Nobui, Jennifer, EMNRD
To: Chris Jones
CC: Bratcher, Mike, EMNRD, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD
Attachments: image001.jpg

Chris

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Chris Jones <chris@paragonenvironmental.net>
Sent: Monday, August 22, 2022 10:31 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>
Cc: Chad Hensley <chensley@spurenergy.com>; Braidy Moulder <bmoulder@spurenergy.com>; Angel Pena <angel@paragonenvironmental.net>
Subject: [EXTERNAL] NAPP2113148964

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

This is to inform you that Paragon will be obtaining confirmation samples in response to the rejected Closure Report from 5/4/22. We will be obtaining samples from surface to 4-feet BGS in each area that originally tested dirty. We will share the results once obtained and proceed to closure or address any contamination via dig and haul.

We will be obtaining these samples on 8-24-22 at app 0900.

Thank You,

Chris Jones
Environmental Professional
1601 N. Turner Ste. 500
Hobbs, NM 88240
chris@paragonenvironmental.net



Angel Pena <angel@paragonenvironmental.net>

The Oil Conservation Division (OCD) has accepted the application, Application ID: 324077

<OCDOnline@state.nm.us>

Mon, Mar 18 at 9:27 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#) nAPP2113148964.

The sampling event is expected to take place:

When: 03/20/2024 @ 09:00

Where: I-20-17S-32E 0 FNL 0 FEL (32.816418,-103.781059)

Additional Information: Jeremy Maner
575-602-4231

Additional Instructions: 32.816418,-103.781059

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



Angel Pena <angel@paragonenvironmental.net>

The Oil Conservation Division (OCD) has accepted the application, Application ID: 338619

<OCDOnline@state.nm.us>

Mon, Apr 29 at 1:17 PM

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#) nAPP2113148964.

The sampling event is expected to take place:

When: 05/02/2024 @ 08:00

Where: I-20-17S-32E 0 FNL 0 FEL (32.816418,-103.781059)

Additional Information: Jeremy Maner
575-602-4231

Additional Instructions: 32.816418,-103.781059

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.

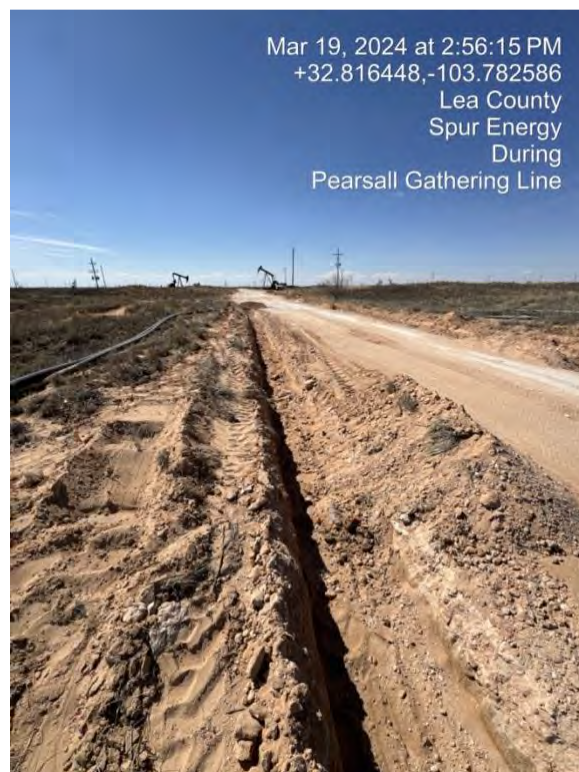
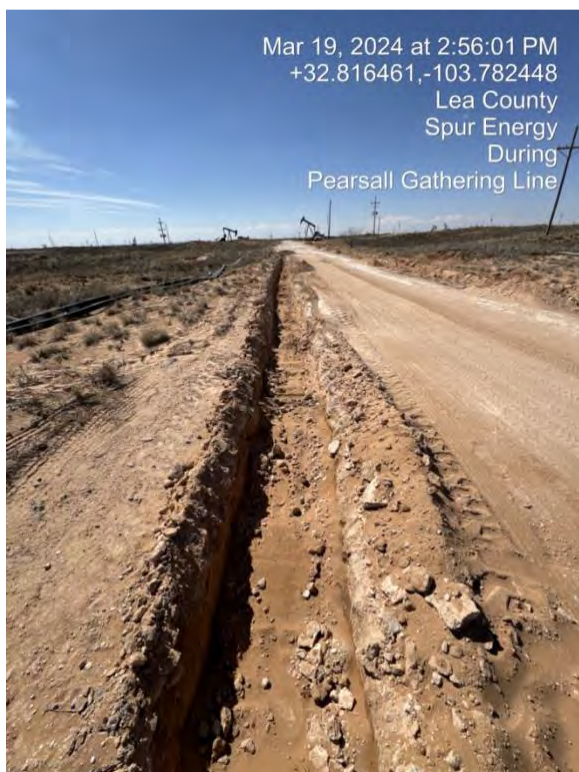
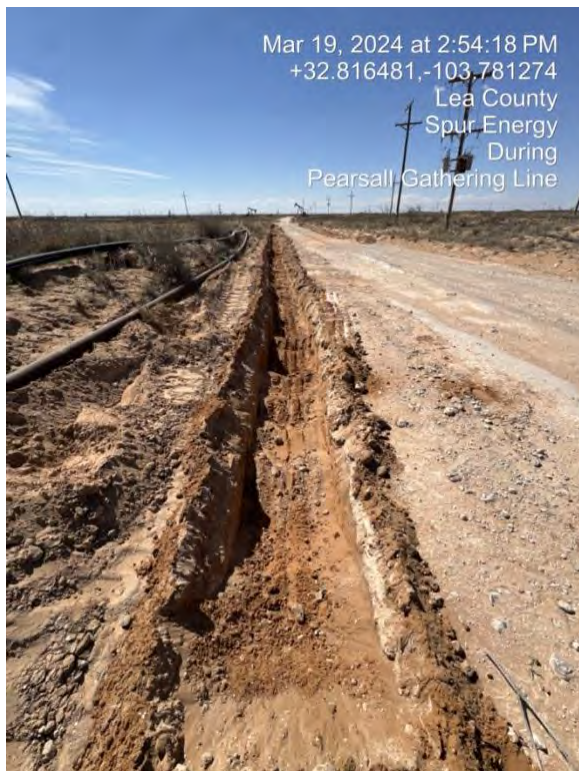
- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

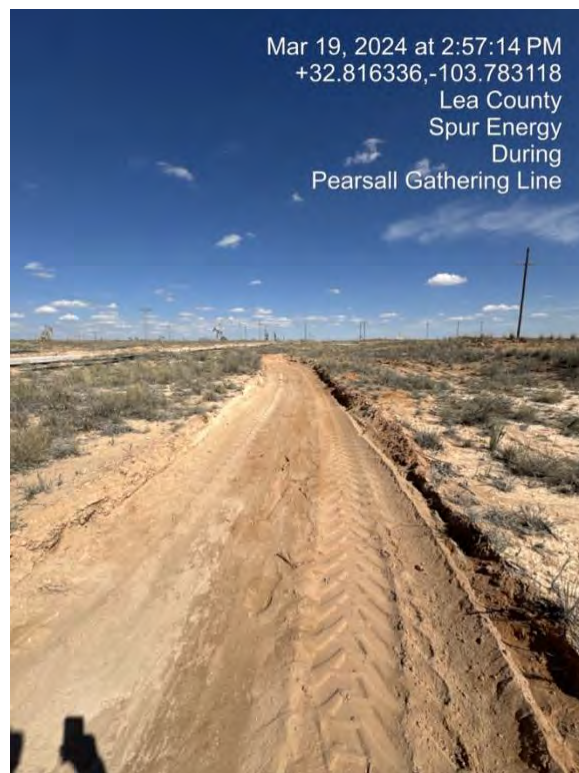
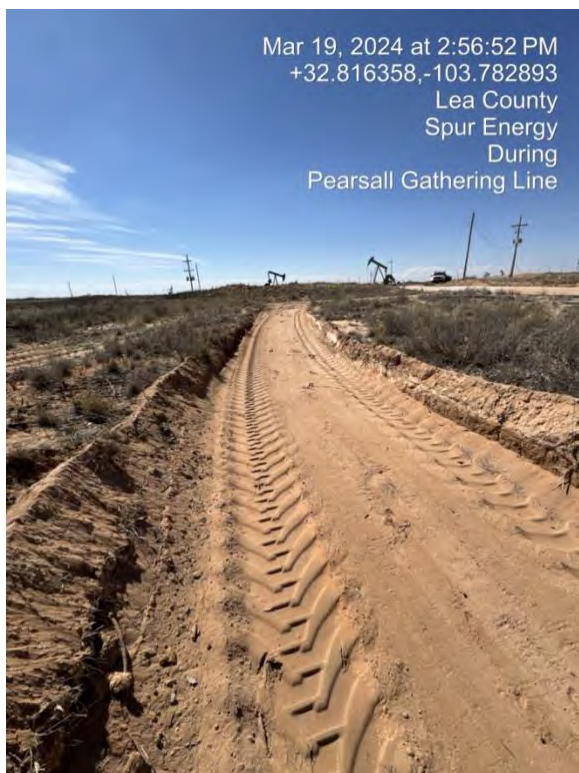
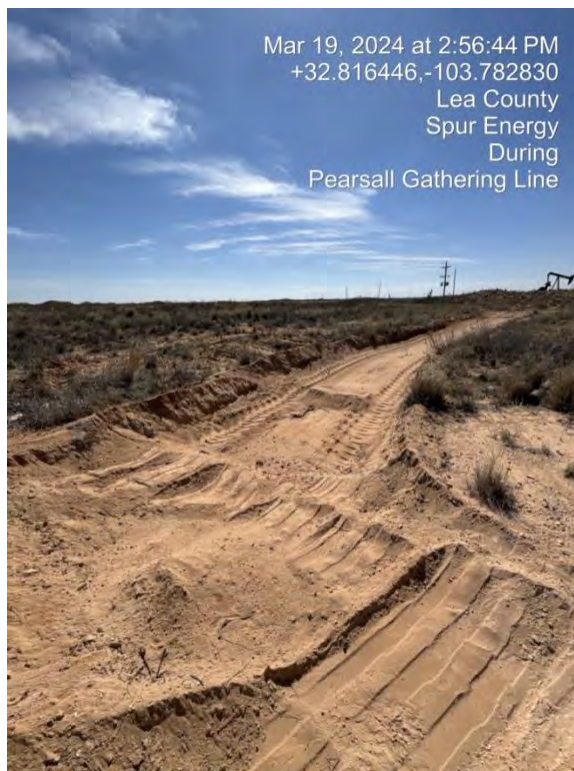
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

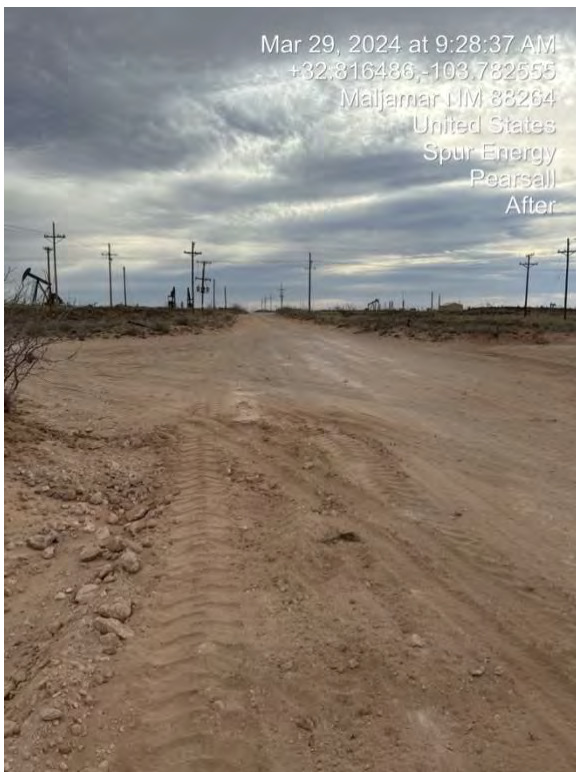
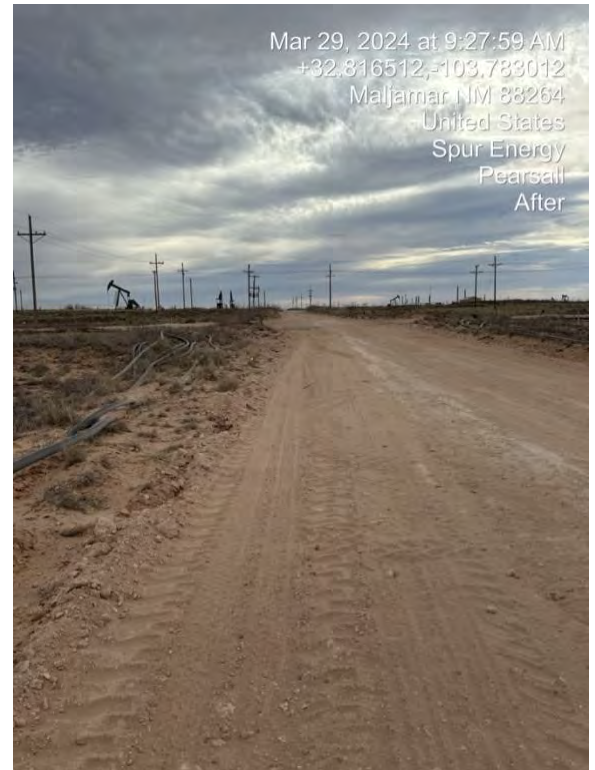


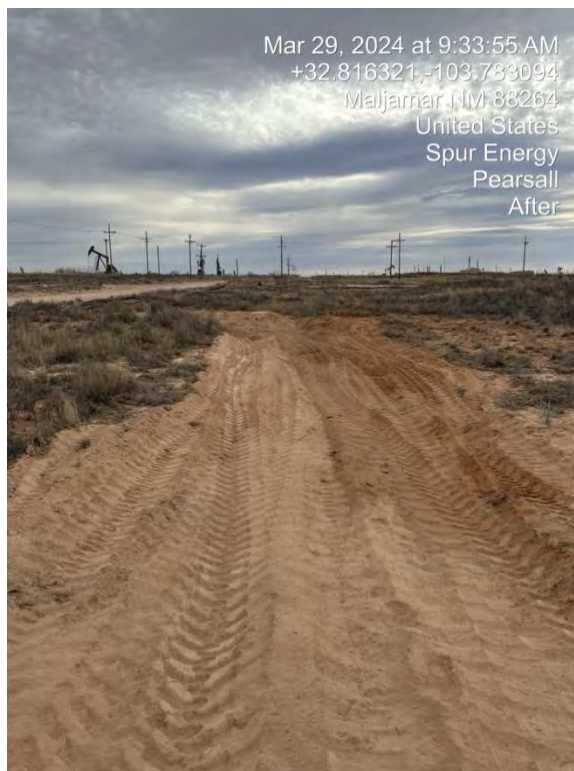
**Photographic Documentation
Excavation**





Completed







Appendix D:
Laboratory Results



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

August 26, 2022

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: PEARSALL SWD GATHERING LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/25/22 8:10.

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 1 0-6" (H223905-01)

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	08/25/2022	ND	2.10	105	2.00	9.35		
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32		
Total BTEx	<0.300	0.300	08/25/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.3 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 1 1' (H223905-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35		
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32		
Total BTEx	<0.300	0.300	08/25/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.8 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 1 2' (H223905-03)

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	08/25/2022	ND	2.10	105	2.00	9.35		
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32		
Total BTEx	<0.300	0.300	08/25/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	08/25/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 78.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.5 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 1 3' (H223905-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35		
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32		
Total BTEX	<0.300	0.300	08/25/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	08/25/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.4 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 1 4' (H223905-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/25/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.8 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 2 0-6" (H223905-06)

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	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/25/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 2 1' (H223905-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/25/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 2 2' (H223905-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/25/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 2 3' (H223905-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/25/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 2 4' (H223905-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	08/25/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 3 0-6" (H223905-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/25/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 3 1' REFUSAL (H223905-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	195	97.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	183	91.3	200	3.66	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 79.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 4 0-6" (H223905-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEX	<0.300	0.300	08/25/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 4 1' (H223905-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/25/2022	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 4 2' (H223905-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 4 3' REFUSAL (H223905-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEX	<0.300	0.300	08/25/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 5 0-6" (H223905-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 5 1' (H223905-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEX	<0.300	0.300	08/25/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 5 2' (H223905-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 5 3' (H223905-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 5 4' (H223905-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 6 0-6" (H223905-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 6 1' (H223905-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 6 2' (H223905-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	1.98	98.8	2.00	7.54		
Toluene*	<0.050	0.050	08/25/2022	ND	2.14	107	2.00	7.06		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.54	109	6.00	9.65		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	202	101	200	0.461	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	217	108	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 6 3' (H223905-25)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	204	102	200	0.986	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	212	106	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 6 4' (H223905-26)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 7 0-6" (H223905-27)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986		
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15		
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 92.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 7 1' (H223905-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986		
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15		
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 96.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 7 2' (H223905-29)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986		
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15		
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 7 3' (H223905-30)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 7 4' (H223905-31)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 8 0-6" (H223905-32)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 98.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 8 1' (H223905-33)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/25/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986		
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15		
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 88.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 8 2' (H223905-34)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 8 3' (H223905-35)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/25/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: S - 8 4' (H223905-36)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63		
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82		
Total BTEx	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/25/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	212	106	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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

Celey D. Keene, Lab Director/Quality Manager



1 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental		P.O. #:		BILL TO		ANALYSIS REQUEST													
Project Manager: Chris Jones		Company: SPUE																	
Address: 225 Billy Walker Rd		Attn: Brady Weller																	
City: Hobbs		State: NM Zip: 88240																	
Phone #: (575)631-6977		Fax #:																	
Project #:		Project Owner: SPUR		City:															
Project Name: Paulsell SWD Catherine's Land		State:		Zip:															
Project Location: Edley County		Phone #:																	
Sample Name: Jeremy Warden		Fax #:																	
FOR LAB USE ONLY		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING									
						GROUNDWATER													
						WASTEWATER													
						SOIL													
						OIL													
						SLUDGE													
						OTHER :													
						ACID/BASE:													
						ICE / COOL													
						OTHER :													
Lab I.D.		Sample I.D.				DATE		TIME											
H223905		0-10"				8/24													
1		S-1		0-10"		8/24													
2		S-1		1'		8/24													
3		S-1		2'		8/24													
4		S-1		3'		8/24													
5		S-1		4'		8/24													
6		S-2		0-10"		8/24													
7		S-2		1'		8/24													
8		S-2		2'		8/24													
9		S-2		3'		8/24													
10		S-2		4'		8/24													
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and damages are limited to the amount paid by the client for the service. In claims involving loss of or damage to property, Cardinal's liability shall be limited to the amount paid by the client for the service. In claims involving loss of or damage to property, Cardinal's liability shall be limited to the amount paid by the client for the service. In claims involving loss of or damage to property, Cardinal's liability shall be limited to the amount paid by the client for the service.</small>																			
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
K2-M/S		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
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[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							
[Signature]		8-25-22		[Signature]		[Signature]		<input type="checkbox"/>		<input type="checkbox"/>		[Signature]							
Relinquished By:		Date:		Received By:		Phone Result:		Yes		No		Add'l Phone #:							



2 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Email results to Chris Jones



3 of 4

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:

Address:

City: Hobbs

State:

Zip:

Phone #:

Fax #:

Project #:

Project Owner: SPWZ

Project Name: Parsell Sub-Cathartes Line

Project Location: Edley County

Sample Name: Jeremy Place

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H223905

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

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

Company Name: Paragon Environmental

Project Manager:

Address:

City: Hobbs

State: Zip:

Phone #:

Fax #:

Project #:

Project Owner: SPUE

Project Name: Peavrell Seed Gathering Land

Project Location: Eddy County

Sampler Name: Jeremy Mauer

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H2A3905

S-7 4'

32 S-8 0.4'

33 S-8 1'

34 S-8 2'

35 S-8 3'

36 S-8 4'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH Ext.

BTEX

Chlorides

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: SPUE

Attn: Brady Winkler

Address:

City:

State:

Zip:

Phone #:

Fax #:

PRESERV

SAMPLING

PLEASE NOTE: Liability and Damages. Cardinal's liability and claims are 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 data, 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:

H2-Mes

Date: 8-25-22

Time: 8:10

Received By:

J. Mauer

Relinquished By:

H2-Mes

Date:

Time:

Received By:

J. Mauer

Delivered By: (Circle One)

UPS

Bus

Other

Sample Condition

Cool

Intact

Yes

No

Checked By:

(Initials)

Y. J.

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

REMARKS:

Email results to Chris Jones

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



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

April 02, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: PEARSALL SWD GATHERING LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/21/24 11:27.

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

Project: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NSW - 1 1'	H241482-01	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 2 1'	H241482-02	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 3 1'	H241482-03	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 4 1'	H241482-04	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 5 1'	H241482-05	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 6 1'	H241482-06	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 7 1'	H241482-07	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 8 1'	H241482-08	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 9 1'	H241482-09	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 10 1'	H241482-10	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 11 1'	H241482-11	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 12 1'	H241482-12	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 13 1'	H241482-13	Soil	20-Mar-24 00:00	21-Mar-24 11:27
NSW - 14 1'	H241482-14	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 1 1'	H241482-15	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 2 1'	H241482-16	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 3 1'	H241482-17	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 4 1'	H241482-18	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 5 1'	H241482-19	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 6 1'	H241482-20	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 7 1'	H241482-21	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 8 1'	H241482-22	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 9 1'	H241482-23	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 10 1'	H241482-24	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 11 1'	H241482-25	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 12 1'	H241482-26	Soil	20-Mar-24 00:00	21-Mar-24 11:27
SSW - 13 1'	H241482-27	Soil	20-Mar-24 00:00	21-Mar-24 11:27

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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 14 1'	H241482-28	Soil	20-Mar-24 00:00	21-Mar-24 11:27
ESW - 1 1'	H241482-29	Soil	20-Mar-24 00:00	21-Mar-24 11:27
ESW - 2 1'	H241482-30	Soil	20-Mar-24 00:00	21-Mar-24 11:27
ESW - 3 1'	H241482-31	Soil	20-Mar-24 00:00	21-Mar-24 11:27
WSW - 1 1'	H241482-32	Soil	20-Mar-24 00:00	21-Mar-24 11:27
WSW - 2 1'	H241482-33	Soil	20-Mar-24 00:00	21-Mar-24 11:27
WSW - 3 1'	H241482-34	Soil	20-Mar-24 00:00	21-Mar-24 11:27
S - 1 1'	H241482-35	Soil	20-Mar-24 00:00	21-Mar-24 11:27
S - 2 1'	H241482-36	Soil	20-Mar-24 00:00	21-Mar-24 11:27
S - 3 1'	H241482-37	Soil	20-Mar-24 00:00	21-Mar-24 11:27
S - 4 1'	H241482-38	Soil	20-Mar-24 00:00	21-Mar-24 11:27
S - 5 1'	H241482-39	Soil	20-Mar-24 00:00	21-Mar-24 11:27
S - 6 1'	H241482-40	Soil	20-Mar-24 00:00	21-Mar-24 11:27
S - 7 1'	H241482-41	Soil	20-Mar-24 00:00	21-Mar-24 11:27
S - 8 1'	H241482-42	Soil	20-Mar-24 00:00	21-Mar-24 11:27
S - 9 1'	H241482-43	Soil	20-Mar-24 00:00	21-Mar-24 11:27

04/02/24 - Client added BTEX and TPH on 03/27/24 (see COC). This is the revised report and will replace the one sent on 03/27/24.

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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 1 1'
H241482-01 (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	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	27-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	27-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	27-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	27-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	27-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 4032733 JH 27-Mar-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane 80.7 % 48.2-134 4032730 MS 28-Mar-24 8015B

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148 4032730 MS 28-Mar-24 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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 2 1'
H241482-02 (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	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	27-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	27-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	27-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	27-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	27-Mar-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4032733	JH	27-Mar-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
Surrogate: 1-Chlorooctane			70.9 %	48.2-134		4032730	MS	28-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			65.6 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 3 1'
H241482-03 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	11.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			81.5 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			75.5 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 4 1'
H241482-04 (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	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			88.7 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			81.5 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 5 1'
H241482-05 (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	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			81.4 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			74.9 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 6 1'
H241482-06 (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	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	17.3		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	17.1		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			89.3 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			83.4 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 7 1'
H241482-07 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			79.1 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			72.8 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 8 1'
H241482-08 (Soil)

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

Chloride	16.0		16.0	mg/kg	4	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			81.5 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			75.7 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 9 1'
H241482-09 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.5 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			70.1 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 10 1'
H241482-10 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	16.6		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	15.9		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			83.5 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			77.0 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 11 1'
H241482-11 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			72.0 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			65.8 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 12 1'
H241482-12 (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	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			71.9 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			66.5 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 13 1'
H241482-13 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			82.5 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			80.6 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

NSW - 14 1'
H241482-14 (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	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4032733	JH	28-Mar-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
Surrogate: 1-Chlorooctane			76.4 %	48.2-134		4032730	MS	28-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			72.6 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 1 1'
H241482-15 (Soil)

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

Chloride	160		16.0	mg/kg	4	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			82.3 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			76.9 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 2 1'
H241482-16 (Soil)

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

Chloride	16.0		16.0	mg/kg	4	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			84.5 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			79.1 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 3 1'
H241482-17 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032520	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			71.3 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			65.0 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 4 1'
H241482-18 (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	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			86.4 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			80.2 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 5 1'
H241482-19 (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	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			85.1 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			78.5 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 6 1'
H241482-20 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032733	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032733	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4032733	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032730	MS	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			85.0 %	48.2-134		4032730	MS	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			79.5 %	49.1-148		4032730	MS	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 7 1'
H241482-21 (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	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	17.6		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			87.8 %	48.2-134		4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			94.1 %	49.1-148		4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 8 1'
H241482-22 (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	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			85.1 %	48.2-134		4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			89.6 %	49.1-148		4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 9 1'
H241482-23 (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	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			90.2 %	48.2-134		4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			95.0 %	49.1-148		4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 10 1'
H241482-24 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			71.7 %		48.2-134	4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			73.8 %		49.1-148	4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 11 1'
H241482-25 (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	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			93.1 %	48.2-134		4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			96.9 %	49.1-148		4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 12 1'
H241482-26 (Soil)

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

Chloride	16.0		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			85.6 %		48.2-134	4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			89.4 %		49.1-148	4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 13 1'
H241482-27 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			92.8 %		48.2-134	4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			98.9 %		49.1-148	4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

SSW - 14 1'
H241482-28 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			89.9 %		48.2-134	4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			94.2 %		49.1-148	4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

ESW - 1 1'
H241482-29 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.2 %		48.2-134	4032731	ms	27-Mar-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.5 %		49.1-148	4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

ESW - 2 1'
H241482-30 (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	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			86.8 %		48.2-134	4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			90.4 %		49.1-148	4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

ESW - 3 1'
H241482-31 (Soil)

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

Chloride	144		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			72.4 %	48.2-134		4032731	ms	27-Mar-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			76.0 %	49.1-148		4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

WSW - 1 1'
H241482-32 (Soil)

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

Chloride	16.0		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			91.0 %		48.2-134	4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			95.7 %		49.1-148	4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

WSW - 2 1'
H241482-33 (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	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		4032734	JH	28-Mar-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
Surrogate: 1-Chlorooctane			81.7 %	48.2-134		4032731	ms	27-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			84.0 %	49.1-148		4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

WSW - 3 1'
H241482-34 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	38.6		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			86.5 %		48.2-134	4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			93.1 %		49.1-148	4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

S - 1 1'
H241482-35 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			80.5 %	48.2-134		4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			87.2 %	49.1-148		4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

S - 2 1'

H241482-36 (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	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			83.6 %		48.2-134	4032731	ms	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			87.9 %		49.1-148	4032731	ms	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

S - 3 1'**H241482-37 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	4032601	HM	26-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	115 %	71.5-134	4032734	JH	28-Mar-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B

Surrogate: 1-Chlorooctane	82.2 %	48.2-134	4032731	ms	28-Mar-24	8015B
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Surrogate: 1-Chlorooctadecane	85.7 %	49.1-148	4032731	ms	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

S - 4 1'**H241482-38 (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	4032537	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			82.2 %		48.2-134	4032731	ms	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			85.1 %		49.1-148	4032731	ms	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

S - 5 1'
H241482-39 (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	4032537	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %		71.5-134	4032734	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B	

Surrogate: 1-Chlorooctane			85.6 %		48.2-134	4032731	ms	28-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			86.4 %		49.1-148	4032731	ms	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

S - 6 1'
H241482-40 (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	4032537	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4032734	JH	28-Mar-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4032734	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	115 %	71.5-134	4032734	JH	28-Mar-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4032731	ms	28-Mar-24	8015B

Surrogate: 1-Chlorooctane	86.7 %	48.2-134	4032731	ms	28-Mar-24	8015B
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Surrogate: 1-Chlorooctadecane	90.1 %	49.1-148	4032731	ms	28-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

S - 7 1'

H241482-41 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	4032537	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032729	JH	28-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.1 %		71.5-134	4032729	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032732	MS	27-Mar-24	8015B	
DRO >C10-C28*	14.7		10.0	mg/kg	1	4032732	MS	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032732	MS	27-Mar-24	8015B	

Surrogate: 1-Chlorooctane			80.8 %		48.2-134	4032732	MS	27-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			83.1 %		49.1-148	4032732	MS	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

S - 8 1'**H241482-42 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	4032537	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			93.3 %	71.5-134		4032729	JH	28-Mar-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032732	MS	27-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032732	MS	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032732	MS	27-Mar-24	8015B	
Surrogate: 1-Chlorooctane			66.1 %	48.2-134		4032732	MS	27-Mar-24	8015B	
Surrogate: 1-Chlorooctadecane			66.6 %	49.1-148		4032732	MS	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

S - 9 1'
H241482-43 (Soil)

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

Chloride	336		16.0	mg/kg	4	4032537	CT	25-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4032729	JH	28-Mar-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4032729	JH	28-Mar-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		93.0 %		71.5-134	4032729	JH	28-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4032732	MS	27-Mar-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4032732	MS	27-Mar-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4032732	MS	27-Mar-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>		83.9 %		48.2-134	4032732	MS	27-Mar-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		83.1 %		49.1-148	4032732	MS	27-Mar-24	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

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 4032520 - 1:4 DI Water**Blank (4032520-BLK1)**

Prepared & Analyzed: 25-Mar-24

Chloride	ND	16.0	mg/kg						
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LCS (4032520-BS1)

Prepared & Analyzed: 25-Mar-24

Chloride	464	16.0	mg/kg	400	116	80-120			
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LCS Dup (4032520-BSD1)

Prepared & Analyzed: 25-Mar-24

Chloride	448	16.0	mg/kg	400	112	80-120	3.51	20	
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Batch 4032537 - 1:4 DI Water**Blank (4032537-BLK1)**

Prepared & Analyzed: 25-Mar-24

Chloride	ND	16.0	mg/kg						
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LCS (4032537-BS1)

Prepared & Analyzed: 25-Mar-24

Chloride	432	16.0	mg/kg	400	108	80-120			
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LCS Dup (4032537-BSD1)

Prepared & Analyzed: 25-Mar-24

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	
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Batch 4032601 - 1:4 DI Water**Blank (4032601-BLK1)**

Prepared & Analyzed: 26-Mar-24

Chloride	ND	16.0	mg/kg						
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LCS (4032601-BS1)

Prepared & Analyzed: 26-Mar-24

Chloride	432	16.0	mg/kg	400	108	80-120			
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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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4032601 - 1:4 DI Water**LCS Dup (4032601-BSD1)**

Prepared & Analyzed: 26-Mar-24

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

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 4032729 - Volatiles**Blank (4032729-BLK1)**

Prepared: 27-Mar-24 Analyzed: 28-Mar-24

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)	ND		mg/kg	0.0500		94.0	71.5-134			

LCS (4032729-BS1)

Prepared: 27-Mar-24 Analyzed: 28-Mar-24

Benzene	2.15	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.10	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	3.95	0.100	mg/kg	4.00		98.9	89-129			
o-Xylene	1.99	0.050	mg/kg	2.00		99.6	86.1-125			
Total Xylenes	5.95	0.150	mg/kg	6.00		99.1	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0464		mg/kg	0.0500		92.8	71.5-134			

LCS Dup (4032729-BS1)

Prepared: 27-Mar-24 Analyzed: 28-Mar-24

Benzene	2.24	0.050	mg/kg	2.00		112	82.8-130	4.29	15.8	
Toluene	2.20	0.050	mg/kg	2.00		110	86-128	4.59	15.9	
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	85.9-128	4.65	16	
m,p-Xylene	4.13	0.100	mg/kg	4.00		103	89-129	4.46	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125	4.43	16.7	
Total Xylenes	6.22	0.150	mg/kg	6.00		104	88.2-128	4.45	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0461		mg/kg	0.0500		92.3	71.5-134			

Batch 4032733 - Volatiles**Blank (4032733-BLK1)**

Prepared & Analyzed: 27-Mar-24

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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

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 4032733 - Volatiles**Blank (4032733-BLK1)**

Prepared & Analyzed: 27-Mar-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	71.5-134			

LCS (4032733-BS1)

Prepared & Analyzed: 27-Mar-24

Benzene	2.17	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.16	0.050	mg/kg	2.00		108	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.31	0.100	mg/kg	4.00		108	89-129			
o-Xylene	2.09	0.050	mg/kg	2.00		104	86.1-125			
Total Xylenes	6.40	0.150	mg/kg	6.00		107	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	71.5-134			

LCS Dup (4032733-BS1)

Prepared & Analyzed: 27-Mar-24

Benzene	2.21	0.050	mg/kg	2.00		111	82.8-130	2.22	15.8	
Toluene	2.20	0.050	mg/kg	2.00		110	86-128	1.66	15.9	
Ethylbenzene	2.15	0.050	mg/kg	2.00		108	85.9-128	1.71	16	
m,p-Xylene	4.39	0.100	mg/kg	4.00		110	89-129	1.65	16.2	
o-Xylene	2.12	0.050	mg/kg	2.00		106	86.1-125	1.71	16.7	
Total Xylenes	6.51	0.150	mg/kg	6.00		108	88.2-128	1.67	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	71.5-134			

Batch 4032734 - Volatiles**Blank (4032734-BLK1)**

Prepared: 27-Mar-24 Analyzed: 28-Mar-24

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)	0.0562		mg/kg	0.0500		112	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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4032734 - Volatiles**LCS (4032734-BS1)**

Prepared & Analyzed: 27-Mar-24

Benzene	1.93	0.050	mg/kg	2.00		96.4	82.8-130		
Toluene	2.07	0.050	mg/kg	2.00		104	86-128		
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128		
m,p-Xylene	4.22	0.100	mg/kg	4.00		106	89-129		
o-Xylene	2.07	0.050	mg/kg	2.00		103	86.1-125		
Total Xylenes	6.29	0.150	mg/kg	6.00		105	88.2-128		

Surrogate: 4-Bromofluorobenzene (PID)

0.0556

mg/kg

0.0500

111

71.5-134

LCS Dup (4032734-BSD1)

Prepared: 27-Mar-24 Analyzed: 28-Mar-24

Benzene	1.90	0.050	mg/kg	2.00		95.0	82.8-130	1.54	15.8
Toluene	2.05	0.050	mg/kg	2.00		103	86-128	0.986	15.9
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	85.9-128	1.53	16
m,p-Xylene	4.14	0.100	mg/kg	4.00		104	89-129	1.87	16.2
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125	1.27	16.7
Total Xylenes	6.18	0.150	mg/kg	6.00		103	88.2-128	1.67	16.3

Surrogate: 4-Bromofluorobenzene (PID)

0.0528

mg/kg

0.0500

106

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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4032730 - General Prep - Organics**Blank (4032730-BLK1)**

Prepared: 27-Mar-24 Analyzed: 28-Mar-24

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	46.2		mg/kg	50.0		92.3	48.2-134		
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.2	49.1-148		

LCS (4032730-BS1)

Prepared: 27-Mar-24 Analyzed: 28-Mar-24

GRO C6-C10	189	10.0	mg/kg	200		94.6	66.4-123		
DRO >C10-C28	183	10.0	mg/kg	200		91.6	66.5-118		
Total TPH C6-C28	372	10.0	mg/kg	400		93.1	77.6-123		
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.6	48.2-134		
Surrogate: 1-Chlorooctadecane	50.9		mg/kg	50.0		102	49.1-148		

LCS Dup (4032730-BS1)

Prepared: 27-Mar-24 Analyzed: 28-Mar-24

GRO C6-C10	183	10.0	mg/kg	200		91.6	66.4-123	3.16	17.7
DRO >C10-C28	178	10.0	mg/kg	200		88.9	66.5-118	2.97	21
Total TPH C6-C28	361	10.0	mg/kg	400		90.3	77.6-123	3.07	18.5
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.8	48.2-134		
Surrogate: 1-Chlorooctadecane	48.0		mg/kg	50.0		96.1	49.1-148		

Batch 4032731 - General Prep - Organics**Blank (4032731-BLK1)**

Prepared & Analyzed: 27-Mar-24

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	48.3		mg/kg	50.0		96.7	48.2-134		
Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	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
1601 N TURNER ST., STE 500
HOBBS NM, 88240

Project: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4032731 - General Prep - Organics**LCS (4032731-BS1)**

Prepared & Analyzed: 27-Mar-24

GRO C6-C10	239	10.0	mg/kg	200		120	66.4-123		
DRO >C10-C28	216	10.0	mg/kg	200		108	66.5-118		
Total TPH C6-C28	455	10.0	mg/kg	400		114	77.6-123		
Surrogate: 1-Chlorooctane	56.9		mg/kg	50.0		114	48.2-134		
Surrogate: 1-Chlorooctadecane	62.4		mg/kg	50.0		125	49.1-148		

LCS Dup (4032731-BS1)

Prepared & Analyzed: 27-Mar-24

GRO C6-C10	221	10.0	mg/kg	200		111	66.4-123	7.80	17.7
DRO >C10-C28	200	10.0	mg/kg	200		100	66.5-118	7.78	21
Total TPH C6-C28	421	10.0	mg/kg	400		105	77.6-123	7.79	18.5
Surrogate: 1-Chlorooctane	52.7		mg/kg	50.0		105	48.2-134		
Surrogate: 1-Chlorooctadecane	56.0		mg/kg	50.0		112	49.1-148		

Batch 4032732 - General Prep - Organics**Blank (4032732-BLK1)**

Prepared & Analyzed: 27-Mar-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	55.9		mg/kg	50.0		112	48.2-134		
Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0		117	49.1-148		

LCS (4032732-BS1)

Prepared & Analyzed: 27-Mar-24

GRO C6-C10	230	10.0	mg/kg	200		115	66.4-123		
DRO >C10-C28	232	10.0	mg/kg	200		116	66.5-118		
Total TPH C6-C28	462	10.0	mg/kg	400		115	77.6-123		
Surrogate: 1-Chlorooctane	63.2		mg/kg	50.0		126	48.2-134		
Surrogate: 1-Chlorooctadecane	68.1		mg/kg	50.0		136	49.1-148		

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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: PEARSALL SWD GATHERING LINE
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
02-Apr-24 15:31

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 4032732 - General Prep - Organics**LCS Dup (4032732-BSD1)**

Prepared & Analyzed: 27-Mar-24

GRO C6-C10	214	10.0	mg/kg	200		107	66.4-123	6.99	17.7	
DRO >C10-C28	208	10.0	mg/kg	200		104	66.5-118	11.1	21	
Total TPH C6-C28	422	10.0	mg/kg	400		106	77.6-123	9.03	18.5	
Surrogate: 1-Chlorooctane	58.2		mg/kg	50.0		116	48.2-134			
Surrogate: 1-Chlorooctadecane	60.2		mg/kg	50.0		120	49.1-148			

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Notes and Definitions

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

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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

Page 56 of 60



BTex added 3-27-24 T.O.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs

Phone #: 575-631-6977

Project #:

Project Name: Russell Sand Gathering Land

Project Location: Lea

Sampler Name: Jeremy Weaver

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H241482

ESW-3 1'

WSW-1 1'

WSW-2 1'

WSW-3 1'

S-1 1'

S-2 1'

S-3 1'

S-4 1'

S-5 1'

S-6 1'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

Chlorides

TPH added 3-27-24 TO.

BTEX added 3-27-24 TO.

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Spur

Attn: Bradley Wolder

Address:

City:

State:

Phone #:

Fax #:

Zip:

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Relinquished By:

Date: 03/20/24

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

REMARKS:

Yes No

Yes No

Yes No

Relinquished By:

Date:

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date:

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Sample Condition

CHECKED BY: (Initials)

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY: (Initials)

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY: (Initials)

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

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

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental Project Manager: Cason Spurlock Address: 5002 Carriage Rd City: Hobbs Phone #: 575-631-6977 State: NM Zip: 88242 Project #: Project Name: Bearall Sand Containing Line Project Location: Lea Sampler Name: Jeremy Warner FOR LAB USE ONLY				P.O. #: Company: SEV Attn: Evelyn Wolder Address: City: State: Zip: Phone #: Fax #:							
Lab I.D. H341482 41 42 43		Sample I.D. 5.7 5.8 5.9		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		MATRIX PRESERV SAMPLING		DATE TIME		Chlorides TPH added 3-27-24 TO BTEX added 3-27-24 TO	
Relinquished By: R.P.M.S. Date: 03/24/21 Time: 11:37		Received By: [Signature] Date: [Blank] Time: [Blank]		Relinquished By: [Blank] Date: [Blank] Time: [Blank]		Received By: [Blank] Date: [Blank] Time: [Blank]		Delivered By: (Circle One) UPS - Bus - Other: -14.0°C \$140		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 04, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: PEARSALL SWD GATHERING LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/28/24 14:02.

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:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 15 1' (H241635-01)

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	04/02/2024	ND	2.14	107	2.00	2.83		
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28		
Total BTEX	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	4.88	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	235	117	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 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:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 16 1' (H241635-02)

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	04/02/2024	ND	2.14	107	2.00	2.83		
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28		
Total BTEx	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	4.88	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	235	117	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 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:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 17 1' (H241635-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	2.83	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28	
Total BTX	<0.300	0.300	04/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	4.88	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	235	117	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 18 1' (H241635-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	2.83	
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28	
Total BTEX	<0.300	0.300	04/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	4.88	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	235	117	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 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:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 19 1' (H241635-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	2.83		
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28		
Total BTEx	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	4.88	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	235	117	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 20 1' (H241635-06)

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	04/02/2024	ND	2.14	107	2.00	2.83		
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28		
Total BTEx	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	4.88	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	235	117	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 21 1' (H241635-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	2.83		
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28		
Total BTEx	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	4.88	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	235	117	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 22 1' (H241635-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	2.83		
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28		
Total BTEx	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	229	115	200	4.88	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	235	117	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 23 1' (H241635-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	2.83		
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28		
Total BTEx	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	86.3	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	85.5	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 24 1' (H241635-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	2.83		
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28		
Total BTEx	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 25 1' (H241635-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	2.83		
Toluene*	<0.050	0.050	04/02/2024	ND	2.14	107	2.00	3.16		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.09	105	2.00	3.40		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.34	106	6.00	3.28		
Total BTEx	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 26 1' (H241635-12)

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	04/02/2024	ND	1.80	89.8	2.00	1.65	
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42	
Total BTX	<0.300	0.300	04/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	11.6	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	10.4	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 15 1' (H241635-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65		
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42		
Total BTEX	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 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:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 16 1' (H241635-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65		
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 17 1' (H241635-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65	
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42	
Total BTEX	<0.300	0.300	04/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 18 1' (H241635-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65		
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	80.0	16.0	04/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 19 1' (H241635-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65		
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	32.0	16.0	04/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 20 1' (H241635-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65	
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42	
Total BTEX	<0.300	0.300	04/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	80.0	16.0	04/02/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 21 1' (H241635-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65	
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42	
Total BTEX	<0.300	0.300	04/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	04/02/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 22 1' (H241635-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65		
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	48.0	16.0	04/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 23 1' (H241635-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65		
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	112	16.0	04/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 24 1' (H241635-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65		
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	128	16.0	04/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	36.3	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	34.4	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 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:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 25 1' (H241635-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65	
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42	
Total BTEX	<0.300	0.300	04/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	128	16.0	04/02/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received:	03/28/2024	Sampling Date:	03/20/2024
Reported:	04/04/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 26 1' (H241635-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	1.80	89.8	2.00	1.65	
Toluene*	<0.050	0.050	04/02/2024	ND	1.92	96.1	2.00	1.87	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	1.89	94.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	5.74	95.7	6.00	2.42	
Total BTEX	<0.300	0.300	04/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	80.0	16.0	04/02/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	230	115	200	6.11	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	246	123	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 67.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Paragon Environmental
Project Manager: Cason Spurlock
Address: 5002 Carriage Rd
City: Hobbs
Phone #: 575-631-6977
State: NM **Zip:** 88242
Project #:
Project Name: Peavsaill SWD Antidumping Line
Project Location: Lea County
Sampler Name: Jeremy W. Gray

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

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX								DATE	TIME	TPH Ext.	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL					
1	NSW-15															
2	NSW-16															
3	NSW-17															
4	NSW-18															
5	NSW-19															
6	NSW-20															
7	NSW-21															
8	NSW-22															
9	NSW-23															
10	NSW-24															

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Relinquished By: KG-MIC **Date:** 05/28 **Received By:** William Welter

Relinquished By: KG-MIC **Date:** 05/28 **Received By:** William Welter

Delivered By: (Circle One) UPS **Sample Condition:** ☒ Cool ☐ Intact **CHECKED BY:** KG-MIC

Sampler - UPS - Bus - Other: -1.2°C **Yes** ☐ **No** ☒ **REMARKS:** Final results to Chris Jones

Page 28 of 29



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



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

March 27, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: PEARSALL SWD GATHERING LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/21/24 11:27.

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".

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:	03/21/2024	Sampling Date:	03/20/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 1 1' (H241482-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: NSW - 2 1' (H241482-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: NSW - 3 1' (H241482-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: NSW - 4 1' (H241482-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/25/2024	ND	464	116	400	3.51	

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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:	03/21/2024	Sampling Date:	03/20/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 5 1' (H241482-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/25/2024	ND	464	116	400	3.51		

Sample ID: NSW - 6 1' (H241482-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: NSW - 7 1' (H241482-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	3.51		

Sample ID: NSW - 8 1' (H241482-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/25/2024	ND	464	116	400	3.51		

Sample ID: NSW - 9 1' (H241482-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	3.51		

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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:	03/21/2024	Sampling Date:	03/20/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 10 1' (H241482-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: NSW - 11 1' (H241482-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: NSW - 12 1' (H241482-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: NSW - 13 1' (H241482-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: NSW - 14 1' (H241482-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/25/2024	ND	464	116	400	3.51	

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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:	03/21/2024	Sampling Date:	03/20/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 1 1' (H241482-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: SSW - 2 1' (H241482-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: SSW - 3 1' (H241482-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	3.51	

Sample ID: SSW - 4 1' (H241482-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/26/2024	ND	432	108	400	0.00	

Sample ID: SSW - 5 1' (H241482-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/26/2024	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/21/2024	Sampling Date:	03/20/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 6 1' (H241482-20)

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	03/26/2024	ND	432	108	400	0.00	

Sample ID: SSW - 7 1' (H241482-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/26/2024	ND	432	108	400	0.00	

Sample ID: SSW - 8 1' (H241482-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/26/2024	ND	432	108	400	0.00	

Sample ID: SSW - 9 1' (H241482-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/26/2024	ND	432	108	400	0.00	

Sample ID: SSW - 10 1' (H241482-24)

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	03/26/2024	ND	432	108	400	0.00	

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

Received:	03/21/2024	Sampling Date:	03/20/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: SSW - 11 1' (H241482-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/26/2024	ND	432	108	400	0.00	

Sample ID: SSW - 12 1' (H241482-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/26/2024	ND	432	108	400	0.00	

Sample ID: SSW - 13 1' (H241482-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/26/2024	ND	432	108	400	0.00	

Sample ID: SSW - 14 1' (H241482-28)

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	03/26/2024	ND	432	108	400	0.00	

Sample ID: ESW - 1 1' (H241482-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/26/2024	ND	432	108	400	0.00	

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

Received:	03/21/2024	Sampling Date:	03/20/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: ESW - 2 1' (H241482-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/26/2024	ND	432	108	400	0.00		

Sample ID: ESW - 3 1' (H241482-31)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/26/2024	ND	432	108	400	0.00		

Sample ID: WSW - 1 1' (H241482-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/26/2024	ND	432	108	400	0.00		

Sample ID: WSW - 2 1' (H241482-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/26/2024	ND	432	108	400	0.00		

Sample ID: WSW - 3 1' (H241482-34)

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	03/26/2024	ND	432	108	400	0.00		

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

Received:	03/21/2024	Sampling Date:	03/20/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: S - 1 1' (H241482-35)

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	03/26/2024	ND	432	108	400	0.00	

Sample ID: S - 2 1' (H241482-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/26/2024	ND	432	108	400	0.00	

Sample ID: S - 3 1' (H241482-37)

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	03/26/2024	ND	432	108	400	0.00	

Sample ID: S - 4 1' (H241482-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/25/2024	ND	432	108	400	0.00	

Sample ID: S - 5 1' (H241482-39)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2024	ND	432	108	400	0.00	

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

Received:	03/21/2024	Sampling Date:	03/20/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - LEA CO NM		

Sample ID: S - 6 1' (H241482-40)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2024	ND	432	108	400	0.00	

Sample ID: S - 7 1' (H241482-41)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/25/2024	ND	432	108	400	0.00	

Sample ID: S - 8 1' (H241482-42)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/25/2024	ND	432	108	400	0.00	

Sample ID: S - 9 1' (H241482-43)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/25/2024	ND	432	108	400	0.00	

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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Page 12 of 16



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: Cason Spurrlock				P.O. #:																																					
Address: 5002 Carriage Rd				Company: Spv																																					
City: Hobbs				Attn: Bradley Wadley																																					
State: NM zip: 88242																																									
Phone #: 575-631-6977				Address:																																					
Fax #:				City:																																					
Project #: Project Owner: Spv				State: zip:																																					
Project Name: Peersall SWD Redhorse Lane				Phone #:																																					
Project Location: Lea				Fax #:																																					
Sampler Name: Jeremy Warner																																									
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													
H241482		11		NSW. 11		1		C																		03/26				Chlorides											
12		NSW. 12		1																																					
13		NSW. 13		1																																					
14		NSW. 14		1																																					
15		SSW. 1		1																																					
16		SSW. 2		1																																					
17		SSW. 3		1																																					
18		SSW. 4		1																																					
19		SSW. 5		1																																					
20		SSW. 6		1																																					

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Relinquished By:	Date: 03/26	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: P. Warner	Date: 11/27	Received By: [Signature]	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Time:	Time:	Time:	REMARKS: Send email results to Chris Jones	

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: -14.0°C	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	[Signature]



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: Cason Spurlock		P.O. #:																																									
Address: 5002 Carriage Rd		Company: Spur																																									
City: Hobbs		Attn: Bradley Wolden																																									
Phone #: 575-631-6977		Address:																																									
Fax #:		City:																																									
Project #:		State:																																									
Project Name: Russell SWD Gathering Line		Zip:																																									
Project Location: Lea		Phone #:																																									
Sampler Name: Jeremy Wilson		Fax #:																																									
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															
H241483		21		SSW - 7		1																						08/10				Chlorides											
22		SSW - 8		1																																							
23		SSW - 9		1																																							
24		SSW - 10		1																																							
25		SSW - 11		1																																							
26		SSW - 12		1																																							
27		SSW - 13		1																																							
28		SSW - 14		1																																							
29		ESW - 1		1																																							
30		ESW - 2		1																																							
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Relinquished By: H2.Mc		Date: 03/21		Time: 11:27		Received By: Mariana Chavez		Date:		Time:		Sample Condition: <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) YO.																													
Relinquished By:		Date:		Time:		Received By:		Date:		Time:		Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)																													
Delivered By: (Circle One)		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:																																					
Sampler - UPS - Bus - Other: -14.0e		#140		Send email to Chris Jones																																							

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs State: NM zip: 88242

Phone #: 575-631-6977

Fax #:

Project #:

Project Owner: Spar

Project Name: Peasall Solid Gathering Line

Project Location: Lea

Sampler Name: Jeremy Weaver

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H24488

31

32

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34

35

36

37

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39

40

ESW. 3

WSW. 1

WSW. 2

WSW. 3

SW. 1

SW. 2

SW. 3

SW. 4

SW. 5

SW. 6

C

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

05/20

Chlorides

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Spar

Attn: Bradley Wolder

Address:

City:

State:

Zip:

Phone #:

Fax #:

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 05/21

Received By:

Relinquished By:

Date: 11/27

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

-14.0°C

#140

Sample Condition
Cool ☒ Intact ☒
Yes ☐ No ☐

CHECKED BY: (Initials)

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

REMARKS:

Send email to Chris Jones



ANALYSIS REQUEST

Page 16 of 16



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

May 07, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: PEARSALL SWD GATHERING LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/01/24 15:08.

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:	05/01/2024	Sampling Date:	05/01/2024
Reported:	05/07/2024	Sampling Type:	Soil
Project Name:	PEARSALL SWD GATHERING LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - LEA CO NM		

Sample ID: NSW - 23 1' (H242343-01)

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	05/04/2024	ND	1.85	92.5	2.00	5.32	
Toluene*	<0.050	0.050	05/04/2024	ND	1.86	93.2	2.00	5.78	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	1.87	93.5	2.00	5.59	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	5.43	90.5	6.00	5.57	
Total BTEx	<0.300	0.300	05/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/07/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	211	105	200	3.52	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	198	98.9	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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

Company Name: Raygon Environmental

Project Manager: Cash Spilack

Address: 5002 Carriat Rd.

City: Hobbs, NM

Phone #: 575-631-6477

State: NM

Zip: 88242

Project #: _____

Project Owner: Spur

Project Name: Rearsall SLD Bathing Ln

Project Location: Lea

Sampler Name: Jeremy W. May

FOR LAB USE ONLY

Lab I.D. _____

Sample I.D. _____

NSW-25

1

C

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH Ext

BTEX

Chlorides

BILL TO

P.O. #:

Company: Spur

Attn: Bryden W. Miller

Address:

City:

State:

Zip:

Phone #:

Fax #:

PRESERV

SAMPLING

ANALYSIS REQUEST

District I
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 346425

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 346425
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2113148964
Incident Name	NAPP2113148964 PEARSALL SWD GATHERING LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	PEARSALL SWD GATHERING LINE
Date Release Discovered	04/30/2021
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 17 BBL Recovered: 5 BBL Lost: 12 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Flowline Ruptured

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QUESTIONS, Page 2

Action 346425

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	346425
	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	N/A

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 05/21/2024
--	---

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QUESTIONS, Page 3

Action 346425

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	346425
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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	Yes

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)	416
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	171.8
GRO+DRO	(EPA SW-846 Method 8015M)	86.3
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	03/18/2024
On what date will (or did) the final sampling or liner inspection occur	03/20/2024
On what date will (or was) the remediation complete(d)	05/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	300
What is the estimated volume (in cubic yards) that will be reclaimed	160
What is the estimated surface area (in square feet) that will be remediated	300
What is the estimated volume (in cubic yards) that will be remediated	160

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 346425

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	346425
	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	LEA LAND LANDFILL [fEEM0112342028]
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: 05/21/2024
<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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1220 S. St Francis Dr.
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QUESTIONS, Page 5

Action 346425

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	346425
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 346425

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	346425
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	338619
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/02/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	1825

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	1500
What was the total volume (cubic yards) remediated	160
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	1500
What was the total volume (in cubic yards) reclaimed	160
Summarize any additional remediation activities not included by answers (above)	CONTAMINATED SOIL WAS REMOVED TO MEET THE MOST STRINGENT STANDARD SET FORTH BY NMOCD

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: 05/21/2024
--	--

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QUESTIONS, Page 7

Action 346425

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 346425
	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

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

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

CONDITIONS

Action 346425

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	346425
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	7/24/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/24/2024