

Incident ID	NAPP2118844603
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 6/19/23

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: Robert Hamlet

Date: 11/21/2023

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

Closure Approved by: Robert Hamlet

Date: 11/21/2023

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced



June 1, 2023

NMOCD District 2
 Mike Bratcher
 Artesia, NM 88210

Bureau of Land Management
 Crisha Morgan
 Carlsbad Field Office

Re: Site Assessment, Remediation, and Closure Report
Arkansas 23 Fee #3
API No. 30-015-40192
GPS: Latitude 32.6474571 Longitude -104.4607391
UL "E", Sec. 23, T19S, R25E
Eddy County, NM
NMOCD Ref. No. nAPP2118844603

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment, conduct remediation activities, and reclaim the old containment area for the release site known as the Arkansas 23 Fee #3 (Arkansas). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	Volume of Release:	9.5 bbls
		Volume Recovered:	1 bbls
Source of Release:	Piping	Date of Release:	6/5/21
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:	Private	Mineral Owner:	Private
A hole developed in a 4 inch nipple due to corrosion			

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

REGULATORY FRAMEWORK

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

Site Characteristics	
Approximate Depth to Groundwater	82'
Within 330 ft. of any continuously flowing or significant watercourse?	NO
Within 200 ft. of any lakebed, sinkhole, or playa lake?	NO
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	NO
Within 500 ft. of a spring, private, or domestic freshwater well?	NO
Within 1000 ft. of any fresh water well?	NO
Within the incorporated municipal boundaries or within a municipal well field?	NO
Within 300 ft. of a wetland?	NO
Within the area overlying a subsurface mine?	NO
Within an unstable area such as Karst?	NO
Within a 100-year floodplain?	NO

A search of the groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average groundwater depth within one (1) Mile radius of the Release Site and identify any registered water wells within ½ Mile of the Release Site. Spur drilled a borehole, RA-13210 POD, and submitted the permits and data to the State Engineers' website. The depth of water was found at a depth of 82' BGS and was within a ½ mile radius. Depth to groundwater information is provided in Appendix A.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- and is made up of Piedmont alluvial deposits (Holocene to lower Pleistocene)—Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits (QP). The soil in this area is made up of Pima Silt Loam, with 0 to 1 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained. There is NOT a high potential for karst geology to be present around the Arkansas (Figure #3).

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

TABLE I CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE			
	Constituent	Method	Limit
50'-100' Feet	Chloride	EPA 300.0	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO + DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

INITIAL SITE ASSESSMENT

On September 15th, 2022, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples in the area where the spill occurred on the south side of the pad in the pasture area. Eleven (11) soil samples were collected in this area in an effort to determine the vertical and horizontal 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:

09-15-22 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 82')								
Sample Date	9-15-22	Closure Criteria < 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined 1,000 mg/kg			Closure Criteria 2,500 mg/kg	Closure Criteria 10,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	0-6"	ND	ND	ND	ND	ND	ND	128
	1'	--	--	--	--	--	--	64
	2'	--	--	--	--	--	--	48
	3'	--	--	--	--	--	--	32
	4'	--	--	--	--	--	--	48
S-2	0-6"	ND	ND	ND	ND	ND	ND	64
	1'	--	--	--	--	--	--	176
	2'	--	--	--	--	--	--	48
	3'	--	--	--	--	--	--	64
	4'	--	--	--	--	--	--	64
S-3	0-6"	ND	ND	ND	ND	ND	ND	19200
	1'	--	--	--	--	--	--	10900
	2'	--	--	--	--	--	--	10100
	3'	--	--	--	--	--	--	11500
	4'	--	--	--	--	--	--	11200
S-4	0-6"	ND	ND	ND	ND	ND	ND	8000
	1'	--	--	--	--	--	--	5840
	2'	--	--	--	--	--	--	8640
	3'	--	--	--	--	--	--	12000
	4'	--	--	--	--	--	--	11600
S-5	0-6"	ND	ND	ND	ND	ND	ND	8930
	1'	--	--	--	--	--	--	1840
	2'	--	--	--	--	--	--	1420
	3'	--	--	--	--	--	--	544
	4'	--	--	--	--	--	--	336
S-6	0-6"	ND	ND	ND	ND	ND	ND	128
	1'	--	--	--	--	--	--	208
	2'	--	--	--	--	--	--	64
	3'	--	--	--	--	--	--	48
	4'	--	--	--	--	--	--	32
S-7	0-6"	ND	ND	ND	ND	ND	ND	832
	1'	--	--	--	--	--	--	48
	2'	--	--	--	--	--	--	64
	3'	--	--	--	--	--	--	48
	4'	--	--	--	--	--	--	48
S-8	0-6"	ND	ND	ND	ND	ND	ND	688
	1'	--	--	--	--	--	--	736
	2'	--	--	--	--	--	--	128
	3'	--	--	--	--	--	--	80
	4'	--	--	--	--	--	--	64
S-9	0-6"	ND	ND	ND	ND	ND	ND	5840
	1'	--	--	--	--	--	--	1650
	2'	--	--	--	--	--	--	1150
	3'	--	--	--	--	--	--	2680
	4'	--	--	--	--	--	--	2200
S-10	0-6"	ND	ND	ND	ND	ND	ND	6800
	1'	--	--	--	--	--	--	32
	2'	--	--	--	--	--	--	48
	3'	--	--	--	--	--	--	2800
	4'	--	--	--	--	--	--	2080
S-11	0-6"	ND	ND	ND	ND	ND	ND	1600
	1'	--	--	--	--	--	--	784
	2'	--	--	--	--	--	--	80
	3'	--	--	--	--	--	--	592
	4'	--	--	--	--	--	--	64

(ND) Analyte Not Detected / (--) Analyte Not Tested
The Original Site Map is provided in Figure #1.

On September 26, 2022, we returned to the site with a backhoe to dig test holes to achieve vertical delineation in the areas that were still above closure criteria. The results of these tests are in the following data table, and a Test Hole Map is attached in Figure 6.

9-26-22 Test Hole Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 82')								
Sample Date 9-26-22		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined 1,000 mg/kg			Closure Criteria 2,500 mg/kg	Closure Criteria 10,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-3	5'	ND	ND	ND	ND	ND	ND	11600
	6'			ND	ND	ND	ND	10600
	7'			ND	ND	ND	ND	9200
	8'			ND	ND	ND	ND	6530
	9'			ND	ND	ND	ND	7460
S-4	10'			ND	ND	ND	ND	7200
	5'	ND	ND	ND	ND	ND	ND	10400
	6'			ND	ND	ND	ND	8800
	7'			ND	ND	ND	ND	5330
	8'			ND	ND	ND	ND	4160
S-9	9'			ND	ND	ND	ND	3680
	10'			ND	ND	ND	ND	2040
	5'	ND	ND	ND	ND	ND	ND	350
	6'			ND	ND	ND	ND	384
	7'			ND	ND	ND	ND	464
S-10	8'			ND	ND	ND	ND	512
	9'			ND	ND	ND	ND	336
	10'			ND	ND	ND	ND	496
	5'	ND	ND	ND	ND	ND	ND	128
	6'			ND	ND	ND	ND	96
S-10	7'			ND	ND	ND	ND	160
	8'			ND	ND	ND	ND	288
	9'			ND	ND	ND	ND	336
	10'			ND	ND	ND	ND	304

(ND) Analyte Not Detected

Test Holes were obtained in the same areas the original samples were taken.

REMEDIATION ACTIVITIES

On April 27th, 2023, 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 scope of work was based on the Original Site Map and sampling data. Attached in Figure 5 is the Excavation Map representing the different depths of our excavation.

- The areas of S-3, S-4, S-9, and S-10 were excavated to a depth of 5' BGS.
- The areas of S-5 and S-11 were excavated to a depth of 3' BGS.
- The area of S-7 was excavated to a depth of 1' BGS.
- The area of S-8 was excavated to a depth of 2' BGS.

An email notification was sent to the NMOCD prior to obtaining confirmation samples. We utilized 5-point bottom composite sampling and sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this sampling event are in the following data table.

4-6-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 82')								
Sample Date 4/6/2023		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria ≤ 2,500 mg/kg	Closure Criteria ≤ 10,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
WSW-1	2'	ND	ND	ND	ND	ND	ND	80
WSW-2	5'	ND	ND	ND	ND	ND	ND	80
WSW-3	5'	ND	ND	ND	ND	ND	ND	112
SSW-1	2'	ND	ND	ND	ND	ND	ND	160
SSW-2	1'	ND	ND	ND	ND	ND	ND	80
SSW-3	3'	ND	ND	ND	ND	ND	ND	112
ESW-1	5'	ND	ND	ND	ND	ND	ND	128
ESW-2	5'	ND	ND	ND	ND	ND	ND	64
ESW-3	3'	ND	ND	ND	ND	ND	ND	80
NSW-1	5'	ND	ND	ND	ND	ND	ND	144
NSW-2	2'	ND	ND	ND	ND	ND	ND	112
NSW-3	2'	ND	ND	ND	ND	ND	ND	160
S-1	2'	ND	ND	ND	ND	ND	ND	2320
S-2	2'	ND	ND	ND	ND	ND	ND	2680
S-3	2'	ND	ND	ND	ND	ND	ND	2200
S-4	1'	ND	ND	ND	ND	ND	ND	80
S-5	1'	ND	ND	ND	ND	ND	ND	16
S-6	20'	ND	ND	ND	ND	ND	ND	2960
S-7	20'	ND	ND	ND	ND	ND	ND	1760
S-8	20'	ND	ND	ND	ND	ND	ND	3000
S-9	3'	ND	ND	ND	ND	ND	ND	256
S-11	2	ND	ND	ND	ND	ND	ND	64
S-12	2'	ND	ND	ND	ND	ND	ND	64
S-13	2'	ND	ND	ND	ND	ND	ND	80

(ND) Analyte Not Detected

Upon receiving these sample results, an additional foot was removed from the areas of S-1, S-2, and S-3- this was originally S-11. S-6, S-7, and S-8 additional test holes to 20 feet BGS in an effort to obtain vertical delineation, this area was originally S-3 & S-4. The results of this event are in the following data table. A Confirmation Sample Map is attached in Figure 7.

4-21-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 82')								
Sample Date 4/21/23		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria ≤ 2,500 mg/kg	Closure Criteria ≤ 10,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	3'	--	--	--	--	--	--	363
S-2	3'	--	--	--	--	--	--	240
S-3	3'	--	--	--	--	--	--	256

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

On May 26, 2023, we again returned to the site with an excavator to obtain vertical delineation of S-6, S-7, and S-8. Because this spill happened in the pasture, we wanted to obtain delineation depths. DTW data has been verified and attached to ensure closure approval. Those results are in the following data table.

5-26-23 Delineation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 82')								
Sample Date 5-26-23		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria ≤ 1,000 mg/kg			Closure Criteria ≤ 2,500 mg/kg	Closure Criteria ≤ 10,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-6	22'	ND	ND	ND	ND	ND	ND	32
S-7	22'	ND	ND	ND	ND	ND	ND	32
S-8	22'	ND	ND	ND	ND	ND	ND	48

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

These laboratory analytical results showed that the confirmation soil samples indicated concentrations below NMOCD Closure Criteria. The excavated soils were loaded into trucks and transported to Lea Land, an NMOCD-approved waste disposal facility. 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, nAPP2231932450, 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- Excavation Map
- 6- Test Hole Map
- 7- Confirmation Map

Appendices:

- Appendix A – Referenced Water Surveys & RA-13210 POD
- Appendix B – Soil Survey and FEMA Flood Map
- Appendix C – C-141
- Appendix D – Email Notification & Photographic Documentation
- Appendix E – Laboratory Reports



Figures:

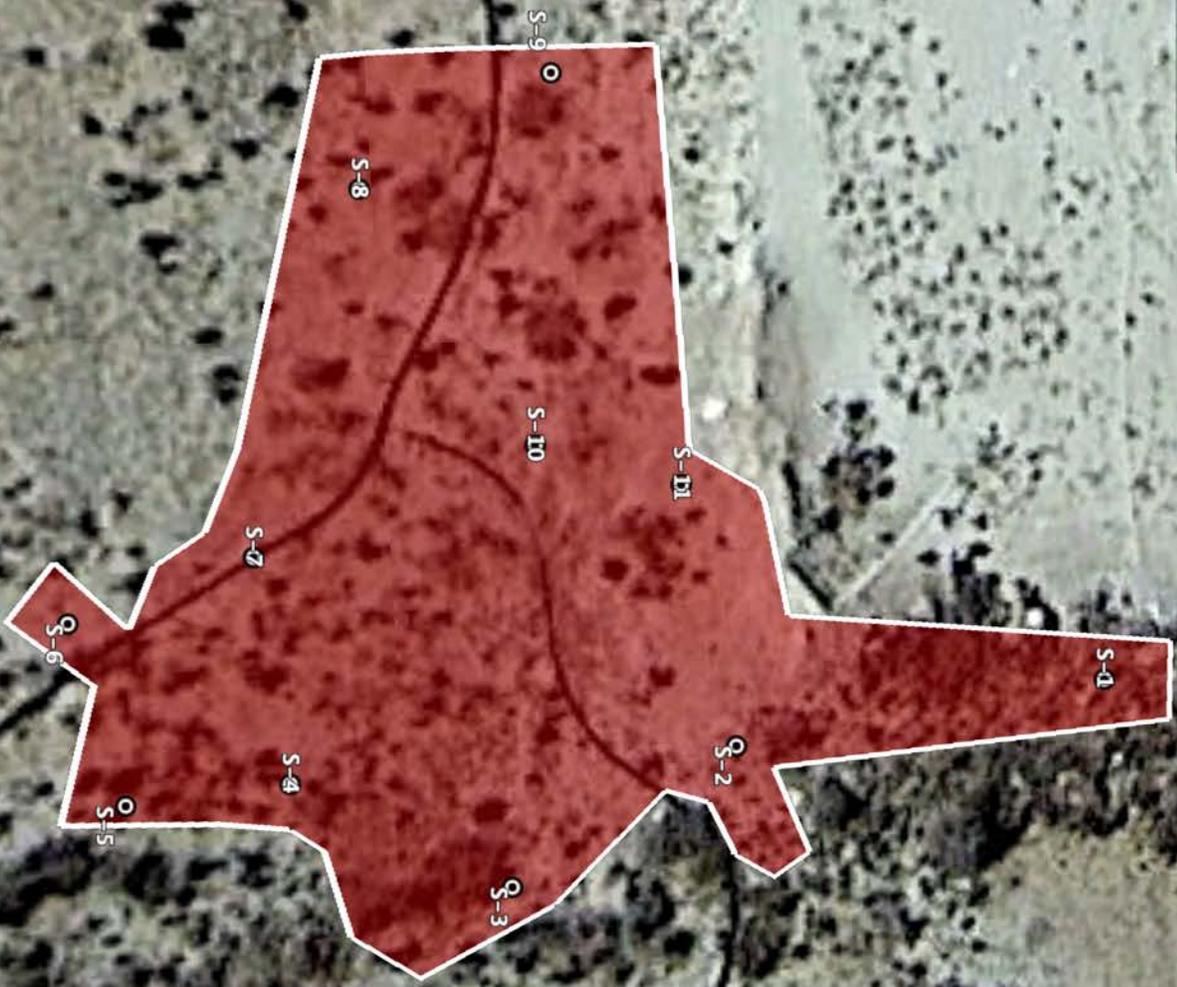
- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Aerial Map
- 5- Excavation Depth Map
- 6- Test Hole Map
- 7- Confirmation Sample Map

Spur Energy Partners

Arkansas 23 Fee #3
API# 30-015-40192
Eddy County, NM
Site Map

Legend

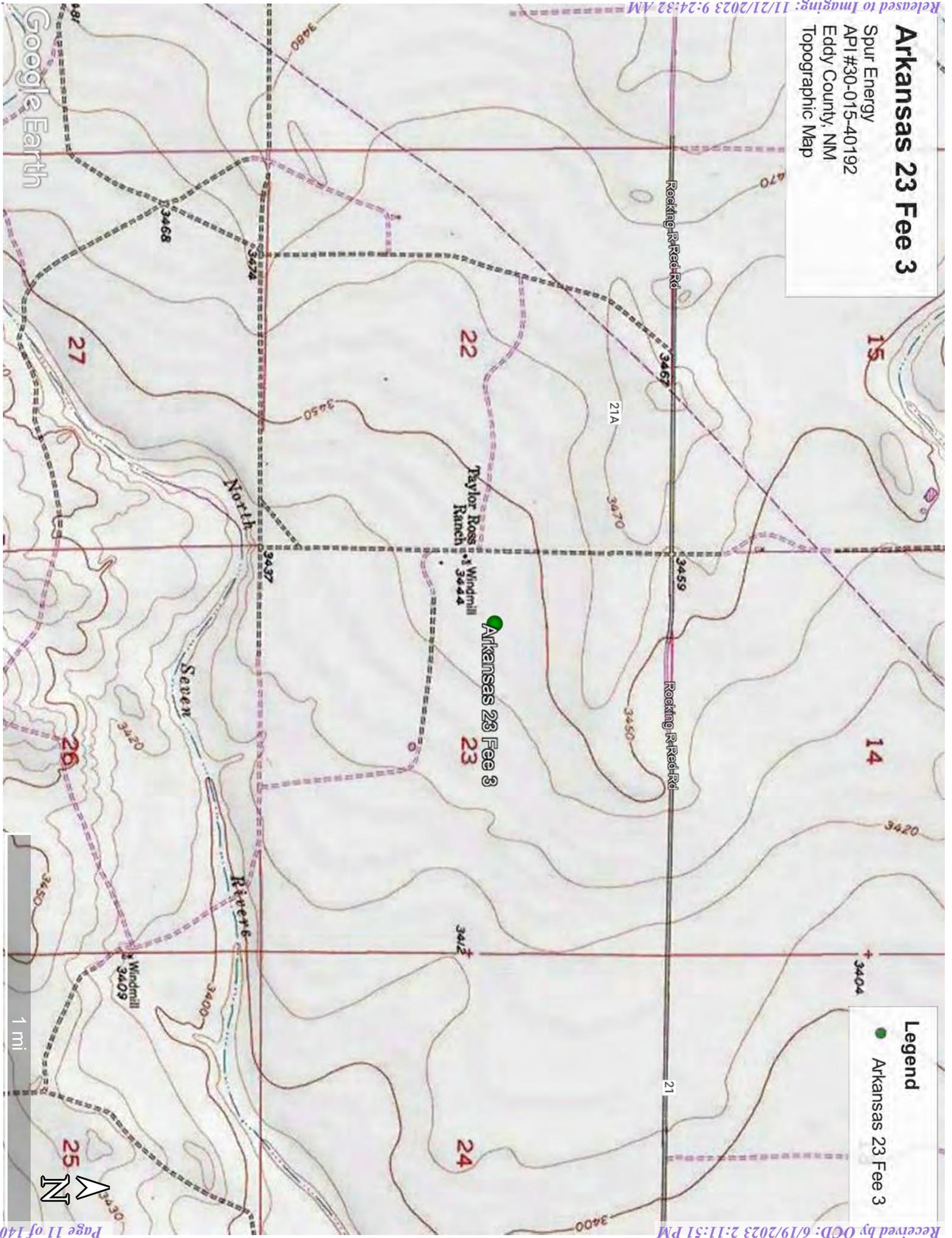
-  Spill Area
-  Samples



60 ft

Arkansas 23 Fee 3

Spur Energy
API #30-015-40192
Eddy County, NM
Topographic Map

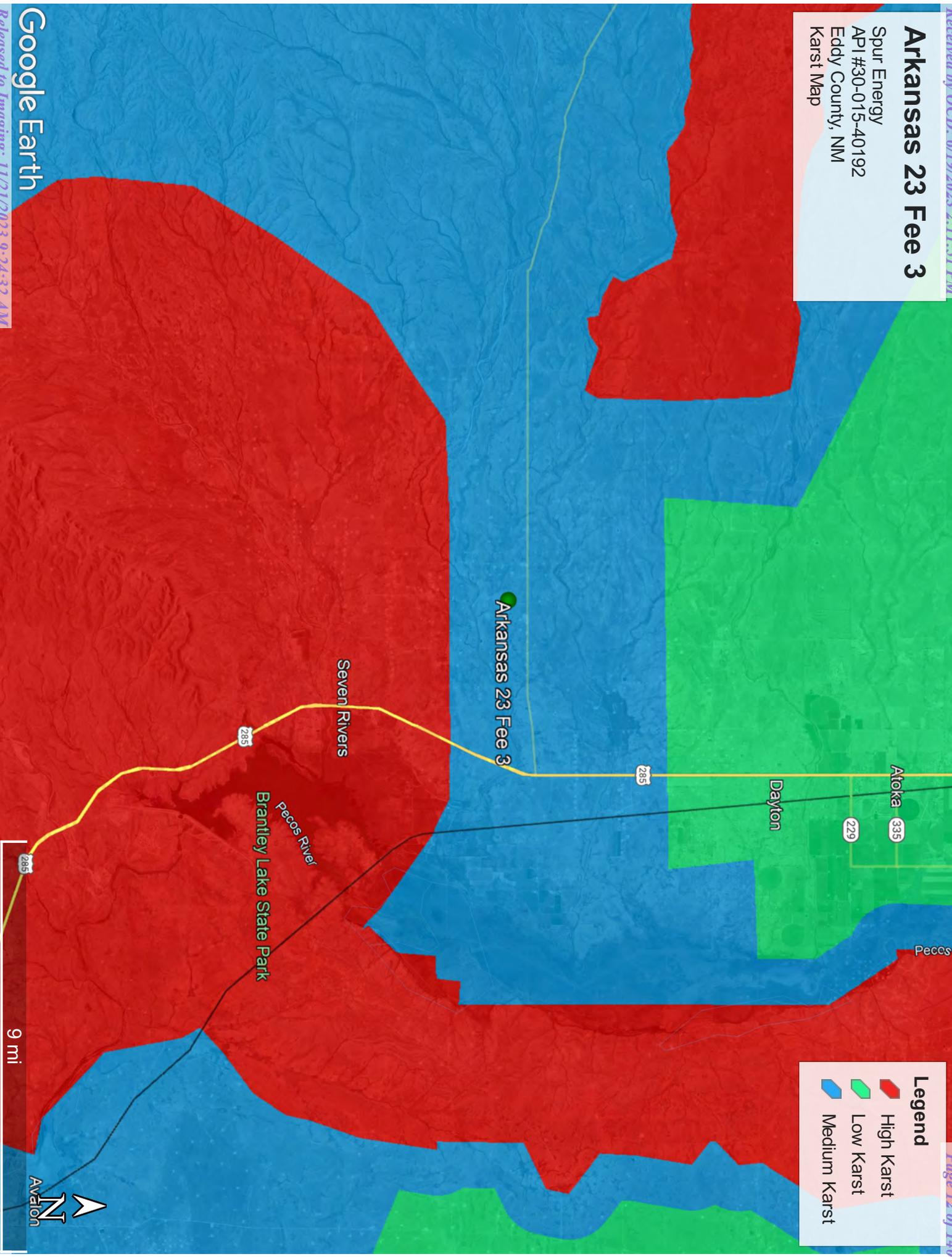


Legend

- Arkansas 23 Fee 3

Google Earth

Arkansas 23 Fee 3
 Spur Energy
 API #30-015-40192
 Eddy County, NM
 Karst Map



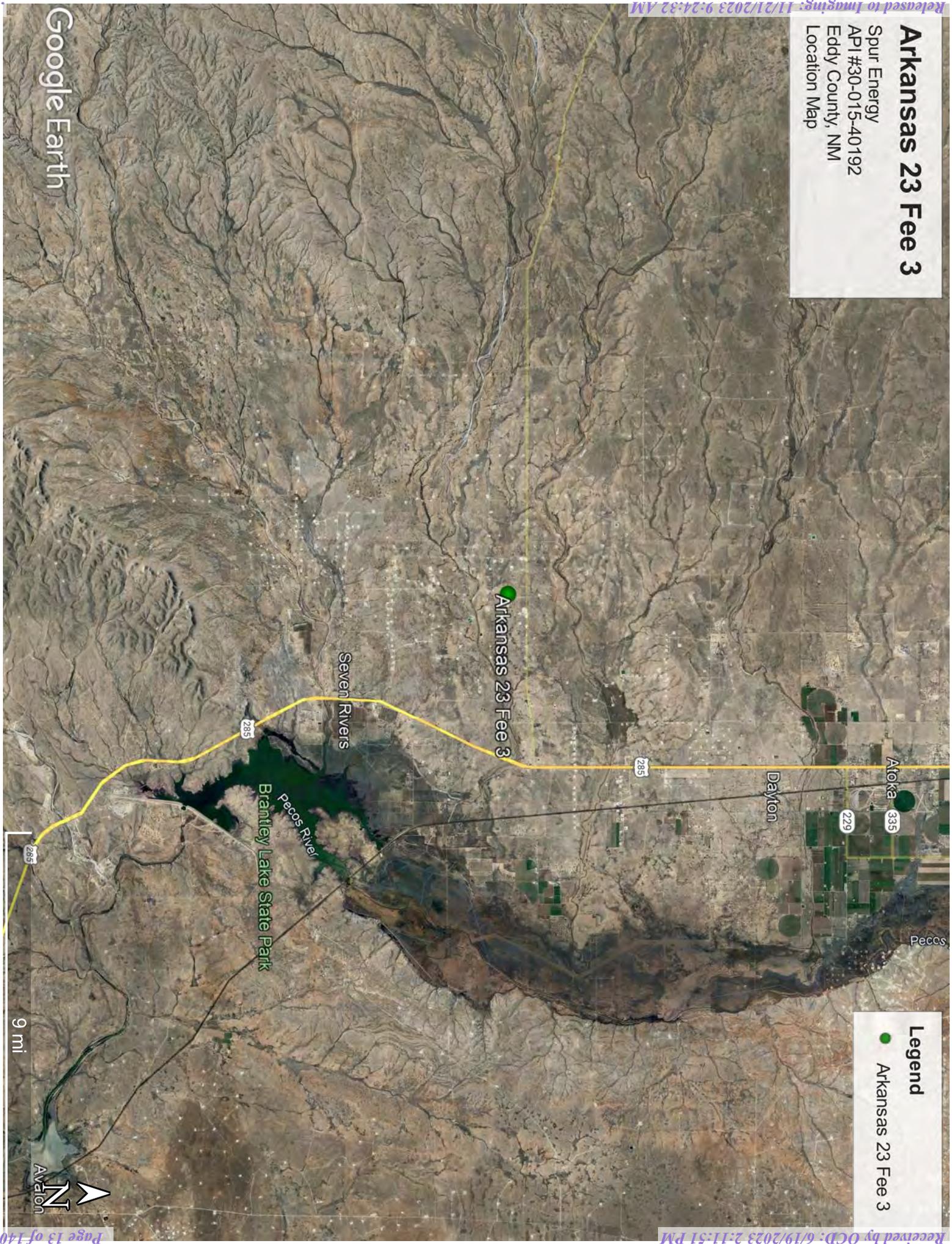
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- High Karst
- Low Karst
- Medium Karst

9 mi

Aviation

Arkansas 23 Fee 3
Spur Energy
API #30-015-40192
Eddy County, NM
Location Map



Legend
● Arkansas 23 Fee 3

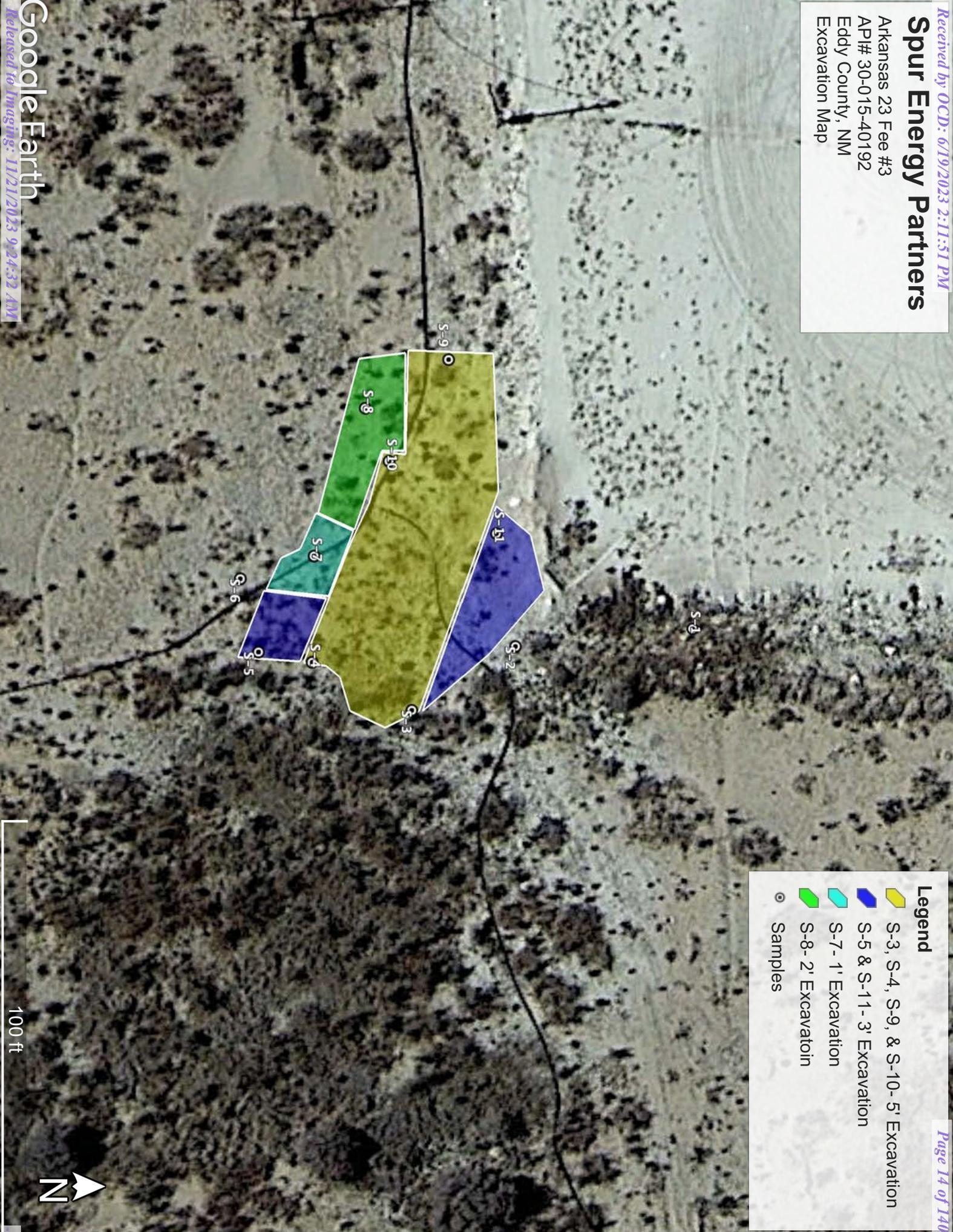
Google Earth

9 mi



Spur Energy Partners

Arkansas 23 Fee #3
API# 30-015-40192
Eddy County, NM
Excavation Map



Legend

- S-3, S-4, S-9, & S-10- 5' Excavation
- S-5 & S-11- 3' Excavation
- S-7- 1' Excavation
- S-8- 2' Excavation
- Samples



Spur Energy Partners

Arkansas 23 Fee #3
API# 30-015-40192
Eddy County, NM
Test Hole Map

Legend

- 10' Samples

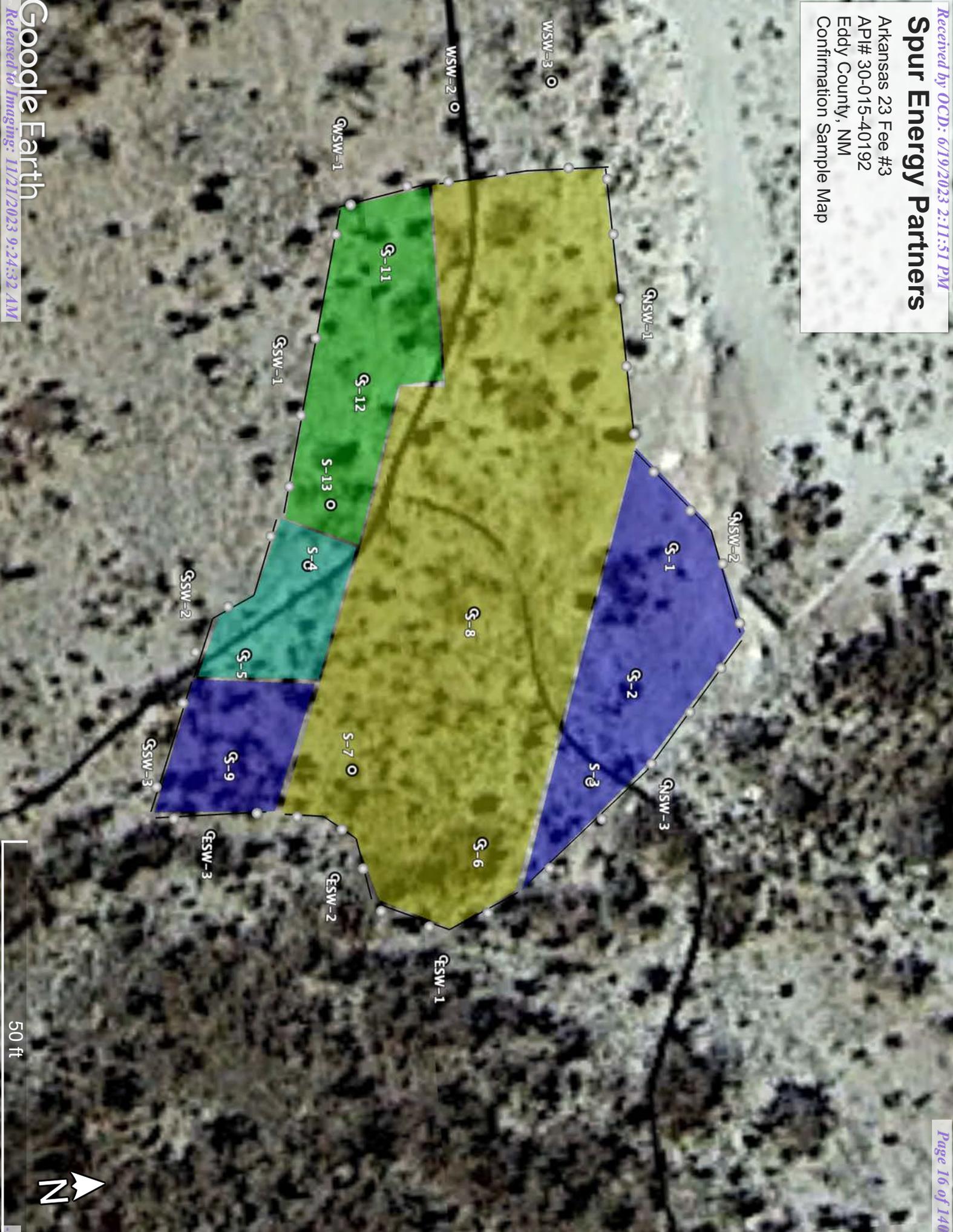


50 ft



Spur Energy Partners

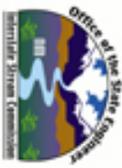
Arkansas 23 Fee #3
API# 30-015-40192
Eddy County, NM
Confirmation Sample Map





Appendix A
Referenced Water Data:

New Mexico State of Engineers Office



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

POD Number	Code	basin	County	Q	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
RA 13210 POD1	RA	ED	3	2	4	23	19S	25E	551644	3611983	754	101	82	19				
RA 05450	RA	CH	4	2	15	19S	25E	550057	3614015*	1934	204	80	124					
RA 02909	RA	ED	1	3	22	19S	25E	548864	3611989*	2121	188	130	58					
RA 09295	RA	ED	4	3	4	13	19S	25E	552979	3613115*	2174	250	85	165				
RA 08986	RA	ED	1	3	3	22	19S	25E	548825	3611507	2280	320	220	100				
RA 03304	RA	ED	1	27	19S	25E	549081	3610973*	2304	130	60	70						
RA 09293	RA	ED	3	4	4	13	19S	25E	553180	3613114*	2361	250	60	190				
RA 09294	RA	ED	3	4	4	13	19S	25E	553180	3613114*	2361	194	76	118				
RA 08611	RA	ED	1	1	1	19	19S	26E	553583	3612909*	2690	235	90	145				
RA 13122 POD2	RA	ED	3	3	2	21	19S	25E	547996	3612385	2966	108	102	6				
RA 13122 POD1	RA	ED	1	3	2	21	19S	25E	547935	3612424	3028							
RA 10496	RA	ED	3	3	4	25	19S	25E	552801	3609865*	3055	110	40	70				
RA 08612	RA	ED	1	2	1	19	19S	26E	553989	3612912*	3087	221	80	141				
RA 10155	RA	ED	4	3	4	25	19S	25E	553001	3609865*	3179	225	60	165				
RA 09988	RA	ED	2	4	1	19	19S	26E	554190	3612507*	3234	100	65	35				
RA 05900	RA	ED	2	2	16	19S	25E	548442	3614424*	3292	185	95	90					
RA 01343	RA	ED	2	1	1	18	19S	26E	553777	3614525*	3585	440	69	371				
RA 07026	RA	ED	3	3	30	19S	26E	553699	3609975*	3594	135	105	30					
RA 07817	RA	ED	2	1	2	19	19S	26E	554592	3612915*	3681	224	145	79				



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

August 25, 2022

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record RA-13210 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, RA-13210 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton". The signature is written in a cursive style.

Lucas Middleton

Enclosures: as noted above

USE DII AUG 29 2022 09:32
USE DII AUG 29 2022 09:32



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. n/a		OSE FILE NO(S) RA-13210		
	WELL OWNER NAME(S) Spur Energy Partners LLC				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 919 Milam St Ste 2475				CITY Houston	STATE TX	ZIP 77002
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 38	SECONDS 39.29	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE		N			
LONGITUDE		104		26		57.69	W
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NE SE Sec. 23 T19S R25E, NMPM							

2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 7/12/2022		DRILLING ENDED 7/12/2022	DEPTH OF COMPLETED WELL (FT) Soil Boring		BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) ±82	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 83.7	DATE STATIC MEASURED 7/14/2022	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
0	101	±6.5	Soil Boring	--	--	--	--	

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

USE DTI AUG 29 2022 08:33

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 01/28/2022)			
FILE NO.		POD NO.		TRN NO.			
LOCATION				WELL TAG ID NO.		PAGE 1 OF 2	



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: RA-13210
Well owner: Spur Energy Partners LLC Phone No.: _____
Mailing address: 919 Milam St Ste 2475
City: Houston State: Texas Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Shane Eldridge
- 4) Date well plugging began: 7/14/2022 Date well plugging concluded: 7/14/2022
- 5) GPS Well Location: Latitude: 32 deg, 38 min, 39.29 sec
Longitude: 104 deg, 26 min, 57.69 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 90.7 ft below ground level (bgl),
by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: 83.7 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 7/7/2022
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE DIT AUG 29 2022 AM 8:33

WR-20 Well Record and Log-forsign

Final Audit Report

2022-08-25

Created:	2022-08-25
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAJ6VcU407X4_FSdugALz7uxTPNP-AS2g

"WR-20 Well Record and Log-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2022-08-25 - 4:57:56 PM GMT- IP address: 64.17.71.25
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2022-08-25 - 4:59:28 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2022-08-25 - 9:11:26 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2022-08-25 - 9:12:14 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2022-08-25 - 9:12:14 PM GMT

OSE DIT AUG 29 2022 08:33



Appendix B
Soil Survey:

U.S.D.A.
FEMA Flood Map

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

Eddy Area, New Mexico

PM—Pima silt loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w56

Elevation: 600 to 4,200 feet

Mean annual precipitation: 8 to 25 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 195 to 290 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Pima and similar soils: 98 percent

Minor components: 2 percent

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

Description of Pima

Setting

Landform: Flood plains, alluvial flats, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Parent material: Alluvium

Typical profile

H1 - 0 to 3 inches: silt loam

H2 - 3 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

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

Depth to water table: More than 80 inches

Frequency of flooding: RareNone

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

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

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

Land capability classification (irrigated): 1

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R042XC017NM - Bottomland

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

Hydric soil rating: No

Minor Components

Dev

Percent of map unit: 1 percent

Ecological site: R042XC017NM - Bottomland

Hydric soil rating: No

Reagan

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 17, Sep 12, 2021



Legend

SEE HIS 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

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

OTHER AREAS OF FLOOD HAZARD

- 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
- Hydrographic Feature

MAP PANELS

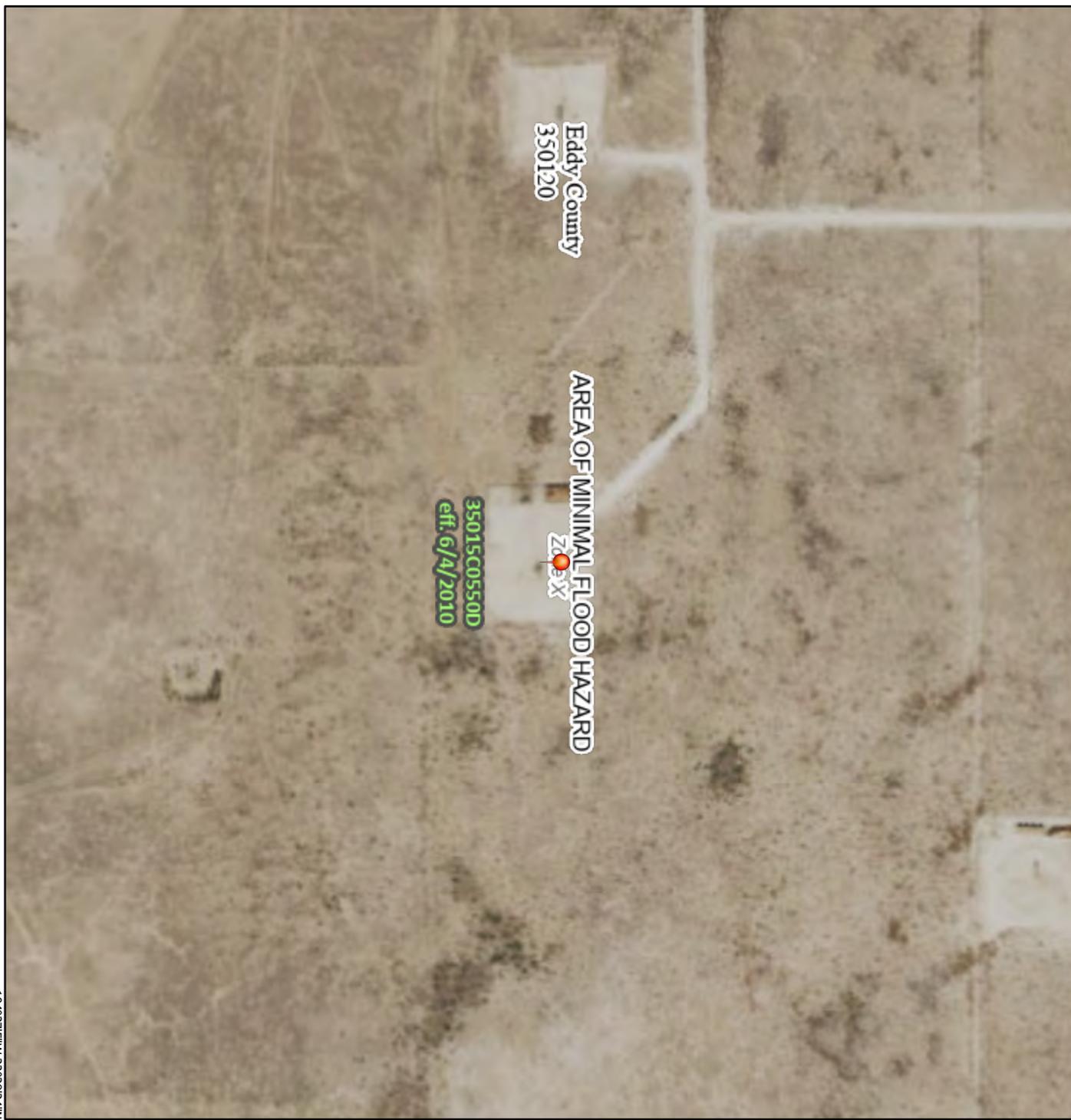
- Digital Data Available
- No Digital Data Available
- Unmapped

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 **10/19/2021 at 12:32 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 unmoderized areas cannot be used for regulatory purposes.





Appendix C:

C-141

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

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

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

Incident ID	NAPP2118844603
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Spur Energy Partners LLC	OGRID	328947
Contact Name	Braidy Moulder	Contact Telephone	713-264-2517
Contact email	bmoulder@spurepllc.com	Incident # (assigned by OCD)	NAPP2118844603
Contact mailing address	2407 Pecos Avenue, Artesia, NM 88210		

Location of Release Source

Latitude 32.6474571 Longitude -104.4607391
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Arkansas 23 Fee #3	Site Type	Production
Date Release Discovered	06/05/2021	API# (if applicable)	30-015-40192

Unit Letter	Section	Township	Range	County
E	23	19S	25E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 9.5	Volume Recovered (bbls) 1
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release A hole developed in a 4 inch nipple due to corrosion.

Incident ID	NAPP2118844603
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Dakota Neel</u> Title: <u>HSE Coordinator</u> Signature: <u></u> Date: <u>06/23/2021</u> email: <u>dneel@spurepllc.com</u> Telephone: <u>832-849-7837</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>7/7/2021</u>

State of New Mexico
Oil Conservation Division

Form C-141

Incident ID	NAPP2118844603
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan

Incident ID	NAPP2118844603
District RP	
Facility ID	
Application ID	

and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 6/19/23

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: _____

Date: _____

Incident ID	NAPP2118844603
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 6/19/23

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____



Appendix D:

Email Notification

Photographic Documentation

Thursday, June 8, 2023 at 12:47:16 Central Daylight Time

Subject: RE: [EXTERNAL] nAAP2118844603
Date: Thursday, June 8, 2023 at 12:40:51 PM Central Daylight Time
From: Harimon, Jocelyn, EMNRD
To: Chris Jones
CC: Bratcher, Michael, EMNRD
Attachments: image002.jpg, image003.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.

JH

Jocelyn Harimon • Environmental Specialist
 Environmental Bureau
 EMNRD - Oil Conservation Division
 1220 South St. Francis Drive | Santa Fe, NM 87505
 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Chris Jones <chris@paragonenvironmental.net>
Sent: Thursday, June 8, 2023 11:35 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: [EXTERNAL] nAAP2118844603

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

All,

Apologies! We had submitted emails for confirmation sampling at the Arkansas 23 #3 on 4/3/23 and 4/18/23 but had listed the wrong incident #. The one on the emails listed incident nAPP2300636521 and should've

been nAPP2118844603. This was missed during the project and not corrected. Can we possibly get a response email on this for our closure report? Again I apologize for the mistake and any inconvenience.

Thank You,

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



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

Friday, June 2, 2023 at 10:37:31 Central Daylight Time

Subject: Arkansas 23 Fee 3

Date: Monday, April 3, 2023 at 12:28:27 PM Central Daylight Time

From: Angel Pena

To: Bratcher, Michael, EMNRD, Chris Jones, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD, Nobui, Jennifer, EMNRD, Tristan Jones

All,

Good morning ! This is to inform you all we will be collecting confirmation samples at the Arkansas 23 Fee3 ,04-06-23 at 9:00 AM . If you have any questions or concerns, please let me know.

Incident number~nAPP2300636521

Thank You,

Angel Peña

575-605-0773

Paragon Environmental LLC.

Friday, June 2, 2023 at 10:37:44 Central Daylight Time

Subject: Arkansas 23

Date: Tuesday, April 18, 2023 at 3:26:04 PM Central Daylight Time

From: Angel Pena

To: Bratcher, Michael, EMNRD, Chris Jones, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD, Nobui, Jennifer, EMNRD, Tristan Jones

All,

Good morning ! This is to inform you all we will be collecting confirmation samples at the Arkansas 23 Fee3 ,04-21-23 at 9:00 AM . If you have any questions or concerns, please let me know.

Incident number~nAPP2300636521

Thank You,

Angel Peña

575-605-0773

Paragon Environmental LLC.



Photographic Documentation

Before





Photographic Documentation

During Remediation





Photographic Documentation

Post Remediation





Appendix E:
Laboratory Results



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

September 21, 2022

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: ARKANSAS 23 FEE 3

Enclosed are the results of analyses for samples received by the laboratory on 09/16/22 12:00.

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".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 1 0-6 (H224303-01)

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	09/19/2022	ND	2.17	109	2.00	2.79	
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82	
Total BTEX	<0.300	0.300	09/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	189	94.5	200	14.3	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	178	89.0	200	23.4	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 71.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.2 % 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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 1 1' (H224303-02)

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	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 1 2' (H224303-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 1 3' (H224303-04)

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	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 1 4' (H224303-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2022	ND	416	104	400	0.00	

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 2 0-6 (H224303-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2022	ND	2.17	109	2.00	2.79	
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82	
Total BTEX	<0.300	0.300	09/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	189	94.5	200	14.3	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	178	89.0	200	23.4	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 2 1' (H224303-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/19/2022	ND	416	104	400	3.77	QM-07

Sample ID: S - 2 2' (H224303-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 2 3' (H224303-09)

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	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 2 4' (H224303-10)

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	09/19/2022	ND	416	104	400	3.77	

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 3 0-6 (H224303-11)

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	09/19/2022	ND	2.17	109	2.00	2.79	
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82	
Total BTEX	<0.300	0.300	09/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	19200	16.0	09/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	189	94.5	200	14.3	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	178	89.0	200	23.4	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.0 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 3 1' (H224303-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 3 2' (H224303-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 3 3' (H224303-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 3 4' (H224303-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	09/19/2022	ND	416	104	400	3.77	

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 4 0-6 (H224303-16)

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	09/19/2022	ND	2.00	100	2.00	3.27	QM-07, QR-03	
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94	QR-03	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71	QR-03	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14		
Total BTEX	<0.300	0.300	09/19/2022	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	8000	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	189	94.5	200	14.3		
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	178	89.0	200	23.4		
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND						

Surrogate: 1-Chlorooctane 64.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.0 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 4 1' (H224303-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 4 2' (H224303-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 4 3' (H224303-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 4 4' (H224303-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	09/19/2022	ND	416	104	400	3.77	

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 5 0-6 (H224303-21)

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	09/19/2022	ND	2.00	100	2.00	3.27	
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14	
Total BTEX	<0.300	0.300	09/19/2022	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	8930	16.0	09/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	189	94.5	200	14.3	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	178	89.0	200	23.4	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 69.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 5 1' (H224303-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 5 2' (H224303-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 5 3' (H224303-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 5 4' (H224303-25)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/19/2022	ND	416	104	400	3.77	

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 6 0-6 (H224303-26)

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	09/19/2022	ND	2.00	100	2.00	3.27	
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14	
Total BTEX	<0.300	0.300	09/19/2022	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	128	16.0	09/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	189	94.5	200	14.3	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	178	89.0	200	23.4	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 6 1' (H224303-27)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 6 2' (H224303-28)

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	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 6 3' (H224303-29)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 6 4' (H224303-30)

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	09/19/2022	ND	416	104	400	0.00	

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 0-6 (H224303-31)

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	09/19/2022	ND	2.00	100	2.00	3.27	
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14	
Total BTEX	<0.300	0.300	09/19/2022	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	832	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	189	94.5	200	14.3	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	178	89.0	200	23.4	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 67.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.4 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 1' (H224303-32)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 7 2' (H224303-33)

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	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 7 3' (H224303-34)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 7 4' (H224303-35)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2022	ND	416	104	400	0.00	

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 8 0-6 (H224303-36)

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	09/19/2022	ND	2.00	100	2.00	3.27	
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14	
Total BTEX	<0.300	0.300	09/19/2022	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	688	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	189	94.5	200	14.3	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	178	89.0	200	23.4	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 72.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.9 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 8 1' (H224303-37)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 8 2' (H224303-38)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 8 3' (H224303-39)

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	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 8 4' (H224303-40)

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	09/19/2022	ND	416	104	400	0.00	

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 9 0-6 (H224303-41)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2022	ND	2.00	100	2.00	3.27	
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14	
Total BTEX	<0.300	0.300	09/19/2022	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	5840	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	189	94.5	200	14.3	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	178	89.0	200	23.4	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 61.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.8 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 9 1' (H224303-42)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 9 2' (H224303-43)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 9 3' (H224303-44)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	09/19/2022	ND	416	104	400	0.00	

Sample ID: S - 9 4' (H224303-45)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	09/19/2022	ND	416	104	400	0.00	

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 10 0-6 (H224303-46)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2022	ND	2.00	100	2.00	3.27	
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14	
Total BTEX	<0.300	0.300	09/19/2022	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	6800	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	189	94.5	200	14.3	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	178	89.0	200	23.4	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 64.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.8 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 10 1' (H224303-47)

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	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 10 2' (H224303-48)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 10 3' (H224303-49)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 10 4' (H224303-50)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	09/19/2022	ND	416	104	400	3.77	

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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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 11 0-6 (H224303-51)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2022	ND	2.00	100	2.00	3.27	
Toluene*	<0.050	0.050	09/19/2022	ND	1.99	99.4	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	1.92	96.1	2.00	2.71	
Total Xylenes*	<0.150	0.150	09/19/2022	ND	5.96	99.4	6.00	3.14	
Total BTEX	<0.300	0.300	09/19/2022	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	1600	16.0	09/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	180	89.9	200	3.23	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.3	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 75.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/16/2022	Sampling Date:	09/15/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23 FEE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 11 1' (H224303-52)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 11 2' (H224303-53)

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	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 11 3' (H224303-54)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/19/2022	ND	416	104	400	3.77	

Sample ID: S - 11 4' (H224303-55)

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	09/19/2022	ND	416	104	400	3.77	

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental		P.O. #:	
Project Manager: Cason Spurlock		Company: Starberry	
Address: 5002 Carriage Rd		Attn:	
City: Hobbs		Address:	
Phone #: 575-631-6977		City:	
Fax #:		State:	
Project #: Project Owner: Starberry		Zip:	
Project Name: Parsons 23 fees		Phone #:	
Project Location: Route 1 2887		Fax #:	
Sampler Name: Axel Pen		PRESERV	
FOR LAB USE ONLY		SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS
1	5-1 0-6		
2	5-1 1'		
3	5-1 2'		
4	5-1 3'		
5	5-1 4'		
6	5-2 0-6		
7	5-2 1'		
8	5-2 2'		
9	5-2 3'		
10	5-2 4'		
11	5-2 4'		

Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER:

DATE: TIME:

REMARKS: Chlorides ✓ TPA ✓ BTEX ✓

REFILLISHED BY: [Signature] DATE: 9-16 TIME: 1:00

RECEIVED BY: [Signature] DATE: [] TIME: []

DELIVERED BY: (Circle One) UPS - Bus - Other: 4.9c / 4.3c #13

CHECKED BY: [Signature]

PHONE RESULT: Yes No ADD'l PHONE #: []

FAX RESULT: Yes No ADD'l FAX #: []

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental		P.O. #:	
Project Manager: Cason Spurlock		Company: <i>SWR Energy</i>	
Address: 5002 Carriage Rd		Attn:	
City: Hobbs		Address:	
Phone #: 575-631-6977		State: NM Zip: 88242	
Project #:		City:	
Project Name: <i>Arkansas 23 fee 03</i>		State:	
Project Location: <i>Route 1 Eddy</i>		Zip:	
Sample Name: <i>Hand O. Pump</i>		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<i>H224303</i>												
<i>21</i>	<i>5-5 0-6</i>											<i>Chlorides</i>
<i>22</i>	<i>5-5 1'</i>											<i>BTEX</i>
<i>23</i>	<i>5-5 2'</i>											<i>TPT</i>
<i>24</i>	<i>5-5 3'</i>											
<i>25</i>	<i>5-5 4'</i>											
<i>26</i>	<i>5-6 0-6</i>											
<i>27</i>	<i>5-6 1'</i>											
<i>28</i>	<i>5-6 2'</i>											
<i>29</i>	<i>5-6 3'</i>											
<i>30</i>	<i>5-6 4'</i>											

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Relinquished By: <i>Hand O. Pump</i>	Date: <i>7-6-22</i>	Received By: <i>Juanita S. [Signature]</i>	Date: <i>7-6-22</i>
Time: <i>12:00</i>	Time:	Time:	Time:

Delivered By: (Circle One) UPS Bus Other: *1190/4.30 #1B*

Sample Condition: Cool Intact Yes No

Checked By: *YO*

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

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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: <i>Arkensaf 23 fees</i> Project Location: <i>Box 1 Eddy</i> Sampler Name: <i>Amel, KSC</i>		P.O. #: _____ Company: <i>S Per Energy</i> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D.: <i>H394303</i> Sample I.D.: _____ Date: _____ Time: _____		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____ DATE: <i>9-15</i> TIME: _____	
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.		ANALYSIS REQUEST Chlorides ✓ BTEX ✓ TPH ✓	
Relinquished By: _____ Date: <i>9-16-22</i> Time: _____ Retinquished By: _____ Date: <i>9-20-22</i> Time: _____ Received By: _____ Date: _____ Time: _____		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>4.9c/4.3c #13</i> Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: <i>VO</i>		_____	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental		P.O. #:	
Project Manager: Cason Spurlock		Company: <i>SPR Energy</i>	
Address: 5002 Carriage Rd		Attn:	
City: Hobbs		Address:	
State: NM zip: 88242		City:	
Phone #: 575-631-6977		State:	
Fax #:		Zip:	
Project #: 41923 23		Project Owner:	
Project Name: <i>ARRAYS 23 fees</i>		State:	
Project Location: <i>Arrays 23 fees</i>		Phone #:	
Sampler Name: <i>Arrays 23</i>		Fax #:	
FOR LAB USE ONLY		PRESERV	
Lab I.D.		SAMPLING	
Sample I.D.		DATE	
Time		TIME	
Date		REMARKS:	
Relinquished By: <i>[Signature]</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Add'l Phone #: Add'l Fax #:	
Date: <i>4-16-22</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Time: <i>1200</i>		REMARKS:	
Date: <i>4-15</i>		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
Time: <i>4-15</i>		MATRIX PRESERV SAMPLING	
Date: <i>5-11 0-6</i>		CHLORIDES TPH BTEX	
Time: <i>5-11 11</i>			
Date: <i>5-11 21</i>			
Time: <i>5-11 31</i>			
Date: <i>5-11 41</i>			
Time: <i>5-11 41</i>			

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

September 29, 2022

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: ARKANSAS 23

Enclosed are the results of analyses for samples received by the laboratory on 09/27/22 9:05.

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".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 3 5' (H224467-01)

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	09/28/2022	ND	2.08	104	2.00	11.2	
Toluene*	<0.050	0.050	09/28/2022	ND	2.02	101	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.92	95.9	2.00	11.7	
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.97	99.5	6.00	12.1	
Total BTEX	<0.300	0.300	09/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 3 6' (H224467-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	09/28/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					
Surrogate: 1-Chlorooctane	90.8 %	45.3-161							
Surrogate: 1-Chlorooctadecane	102 %	46.3-178							

Sample ID: S - 3 7' (H224467-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	09/28/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					
Surrogate: 1-Chlorooctane	85.4 %	45.3-161							
Surrogate: 1-Chlorooctadecane	95.3 %	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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 3 8' (H224467-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	09/28/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					
Surrogate: 1-Chlorooctane	81.5 %	45.3-161							
Surrogate: 1-Chlorooctadecane	90.4 %	46.3-178							

Sample ID: S - 3 9' (H224467-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	09/28/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	76.4 %	45.3-161							
Surrogate: 1-Chlorooctadecane	87.9 %	46.3-178							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 09/27/2022
 Reported: 09/29/2022
 Project Name: ARKANSAS 23
 Project Number: NOT GIVEN
 Project Location: SPUR - RURAL EDDY

Sampling Date: 09/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 10' (H224467-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	09/28/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	81.5 %	45.3-161							
Surrogate: 1-Chlorooctadecane	91.2 %	46.3-178							

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 4 5' (H224467-07)

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	09/28/2022	ND	2.08	104	2.00	11.2	
Toluene*	<0.050	0.050	09/28/2022	ND	2.02	101	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.92	95.9	2.00	11.7	
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.97	99.5	6.00	12.1	
Total BTEX	<0.300	0.300	09/28/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	09/28/2022	ND	400	100	400	3.92	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.7 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 4 6' (H224467-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	77.6 %	45.3-161							
Surrogate: 1-Chlorooctadecane	87.3 %	46.3-178							

Sample ID: S - 4 7' (H224467-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5330	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	82.2 %	45.3-161							
Surrogate: 1-Chlorooctadecane	91.6 %	46.3-178							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 4 8' (H224467-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	87.0 %	45.3-161							
Surrogate: 1-Chlorooctadecane	98.1 %	46.3-178							

Sample ID: S - 4 9' (H224467-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	85.7 %	45.3-161							
Surrogate: 1-Chlorooctadecane	94.4 %	46.3-178							

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 4 10' (H224467-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	83.8 %	45.3-161							
Surrogate: 1-Chlorooctadecane	94.4 %	46.3-178							

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 9 5' (H224467-13)

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	09/28/2022	ND	2.08	104	2.00	11.2		
Toluene*	<0.050	0.050	09/28/2022	ND	2.02	101	2.00	10.0		
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.92	95.9	2.00	11.7		
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.97	99.5	6.00	12.1		
Total BTEX	<0.300	0.300	09/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	229	114	200	5.23		
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	236	118	200	13.7		
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND						

Surrogate: 1-Chlorooctane 73.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.0 % 46.3-178

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 9 6' (H224467-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	229	114	200	5.23	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	236	118	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	62.6 %	45.3-161							
Surrogate: 1-Chlorooctadecane	72.4 %	46.3-178							

Sample ID: S - 9 7' (H224467-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/28/2022	ND	400	100	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	09/27/2022	ND	207	104	200	0.777	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	219	110	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					
Surrogate: 1-Chlorooctane	81.0 %	45.3-161							
Surrogate: 1-Chlorooctadecane	83.4 %	46.3-178							

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 9 8' (H224467-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/28/2022	ND	400	100	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	09/27/2022	ND	204	102	200	3.61	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	198	98.8	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					
Surrogate: 1-Chlorooctane	83.8 %	45.3-161							
Surrogate: 1-Chlorooctadecane	92.0 %	46.3-178							

Sample ID: S - 9 9' (H224467-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/28/2022	ND	400	100	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	09/27/2022	ND	204	102	200	3.61	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	198	98.8	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					
Surrogate: 1-Chlorooctane	89.1 %	45.3-161							
Surrogate: 1-Chlorooctadecane	97.5 %	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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 9 10' (H224467-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	96.1 %	45.3-161							
Surrogate: 1-Chlorooctadecane	112 %	46.3-178							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 10 5' (H224467-19)

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	09/28/2022	ND	2.08	104	2.00	11.2	
Toluene*	<0.050	0.050	09/28/2022	ND	2.02	101	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.92	95.9	2.00	11.7	
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.97	99.5	6.00	12.1	
Total BTEX	<0.300	0.300	09/28/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 10 6' (H224467-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	106 %	45.3-161							
Surrogate: 1-Chlorooctadecane	123 %	46.3-178							

Sample ID: S - 10 7' (H224467-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	99.3 %	45.3-161							
Surrogate: 1-Chlorooctadecane	116 %	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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 10 8' (H224467-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	102 %	45.3-161							
Surrogate: 1-Chlorooctadecane	120 %	46.3-178							

Sample ID: S - 10 9' (H224467-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	91.3 %	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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	09/27/2022	Sampling Date:	09/26/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 10 10' (H224467-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/28/2022	ND	400	100	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	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					
Surrogate: 1-Chlorooctane	98.3 %	45.3-161							
Surrogate: 1-Chlorooctadecane	116 %	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

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental		P.O. #:	
Project Manager: Cason Spurlock		Company: <i>Stu Eddy</i>	
Address: 5002 Carriage Rd		Attn:	
City: Hobbs		Address:	
State: NM zip: 88242		City:	
Phone #: 575-631-6977		State:	
Fax #: _____		Zip:	
Project #: _____		Project Owner:	
Project Name: <i>Arkansas 23</i>		Phone #:	
Project Location: <i>River Eddy</i>		Fax #:	
Sampler Name: <i>Amel O. Kas</i>			
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	
		# CONTAINERS	
<i>11224467</i> 1 2 3 4 5 6 7 8 9 10	5-3 5-3 5-3 5-3 5-3 5-3 5-4 5-4 5-4 5-4	5' 6' 7' 8' 9' 10' 5' 6' 7' 8'	MATRIX
			GROUNDWATER
			WASTEWATER
			SOIL
			OIL
			SLUDGE
			OTHER:
			ACID/BASE:
			ICE / COOL
			OTHER:
DATE	TIME		
		<i>9-26</i>	
			<i>Chlorides</i>
			<i>BTCX</i>
			<i>TPH</i>

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Relinquished By: *Amel O. Kas* Date: *6-27-23* Received By: *Stu Eddy*

Relinquished By: *Amel O. Kas* Date: *6-27-23* Received By: *Stu Eddy*

Delivered By: (Circle One) *#113* Sample Condition: Cool Intact

Sampler - UPS - Bus - Other: *4.9¢/4.3¢* Yes No

Checked By: *Stu Eddy* (Initials)

† 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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental		P.O. #:	
Project Manager: Cason Spurlock		Company: <i>StorEnergy</i>	
Address: 5002 Carriage Rd		Attn:	
City: Hobbs		Address:	
State: NM zip: 88242		City:	
Phone #: 575-631-6977		State:	
Fax #: _____		Zip:	
Project #: _____		Project Owner:	
Project Name: <i>Arkansas 23</i>		Project Location: <i>Ark 1 Ed 17</i>	
Project Location: <i>Ark 10 Park</i>		Sample Name: <i>Ark 10 Park</i>	
FOR LAB USE ONLY		DATE	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	DATE
<i>H224467</i>	<i>11</i>	<i>9</i>	<i>9-26</i>
	<i>12</i>		
	<i>13</i>		
	<i>14</i>		
	<i>15</i>		
	<i>16</i>		
	<i>17</i>		
	<i>18</i>		
	<i>19</i>		
	<i>20</i>		
		MATRIX	SAMPLING
		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER :	
		ACID/BASE:	
		ICE / COOL	
		OTHER :	
		PRESERV	
		Phone #:	
		Fax #:	

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Relinquished By: *Ark 10 Park* Date: *9-27-23* Time: *0905*
 Received By: *William Deady* Date: _____ Time: _____

Delivered By: (Circle One) *#13* Sample Condition: Intact Cool Yes No Yes No
 Sampler - UPS - Bus - Other: *4.9c/4.3c* CHECKED BY: *AD*



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental
 Project Manager: Cason Spurlock
 Address: 5002 Carriage Rd
 City: Hobbs State: NM zip: 88242
 Phone #: 575-631-6977 Fax #:
 Project #: Project Owner:
 Project Name: Arkansas 23
 Project Location: Area 1 Ed 49
 Sampler Name: ~~Area 1~~ Area 10. Pens
 P.O. #: Company: *Sur Energy*
 Attn: Address: City: State: Zip: Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H224467												
21	5-10 7'		1						9-26			Chlorides
22	5-10 8'											PH
23	5-10 9'											
24	5-10 10'											

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Relinquished By: *Chad D. Penz*
 Date: 7-31-22
 Time: 8:05
 Received By: *Barbara A. Woodcock*
 Date: _____
 Time: _____

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: *4.9% 4.3%*
 Sample Condition: Intact Cool Yes No
 CHECKED BY: (Initials) *VB*

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

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



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

May 26, 2023

CHRIS JONES
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: ARKANSAS 23

Enclosed are the results of analyses for samples received by the laboratory on 04/11/23 8:11.

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

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,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
-------------------------------------------------------------	----------------------------------------------------------------------------------------------	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSW - 1	H231682-01	Soil	06-Apr-23 00:00	11-Apr-23 08:11
WSW - 2	H231682-02	Soil	06-Apr-23 00:00	11-Apr-23 08:11
WSW - 3	H231682-03	Soil	06-Apr-23 00:00	11-Apr-23 08:11
SSW - 1	H231682-04	Soil	06-Apr-23 00:00	11-Apr-23 08:11
SSW - 2	H231682-05	Soil	06-Apr-23 00:00	11-Apr-23 08:11
SSW - 3	H231682-06	Soil	06-Apr-23 00:00	11-Apr-23 08:11
S - 1 2'	H231682-07	Soil	06-Apr-23 00:00	11-Apr-23 08:11
S - 2 2'	H231682-08	Soil	06-Apr-23 00:00	11-Apr-23 08:11
S - 3 2'	H231682-09	Soil	06-Apr-23 00:00	11-Apr-23 08:11
S - 4 1'	H231682-10	Soil	06-Apr-23 00:00	11-Apr-23 08:11
S - 5 1'	H231682-11	Soil	06-Apr-23 00:00	11-Apr-23 08:11
S - 6 20'	H231682-12	Soil	06-Apr-23 00:00	11-Apr-23 08:11
S - 7 20'	H231682-13	Soil	06-Apr-23 00:00	11-Apr-23 08:11
S - 8 20'	H231682-14	Soil	06-Apr-23 00:00	11-Apr-23 08:11
S - 9 3'	H231682-15	Soil	06-Apr-23 00:00	11-Apr-23 08:11

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
-------------------------------------------------------------	----------------------------------------------------------------------------------------------	------------------------------

**WSW - 1
H231682-01 (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	3041346	AC	13-Apr-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %		71.5-134	3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.7 %		48.2-134	3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		49.1-148	3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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**WSW - 2
H231682-02 (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	3041346	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %	71.5-134		3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %	48.2-134		3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %	49.1-148		3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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**WSW - 3
H231682-03 (Soil)**

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

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	3041346	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %	71.5-134		3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %	48.2-134		3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %	49.1-148		3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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SSW - 1

H231682-04 (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	3041346	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.0 %		48.2-134	3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			100 %		49.1-148	3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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SSW - 2

H231682-05 (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	3041346	AC	13-Apr-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %	71.5-134		3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %	48.2-134		3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			111 %	49.1-148		3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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SSW - 3

H231682-06 (Soil)

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

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	3041346	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			126 %		71.5-134	3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.6 %		48.2-134	3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.2 %		49.1-148	3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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S - 1 2'

H231682-07 (Soil)

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

Inorganic Compounds

Chloride	2320		16.0	mg/kg	4	3041346	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

Surrogate: 1-Chlorooctane			102 %		48.2-134	3041313	MS	14-Apr-23	8015B	
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Surrogate: 1-Chlorooctadecane			106 %		49.1-148	3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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S - 2 2'

H231682-08 (Soil)

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

Inorganic Compounds

Chloride	2680		16.0	mg/kg	4	3041346	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

Surrogate: 1-Chlorooctane			103 %	48.2-134		3041313	MS	14-Apr-23	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	49.1-148		3041313	MS	14-Apr-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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S - 3 2'

H231682-09 (Soil)

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

Inorganic Compounds

Chloride	2200		16.0	mg/kg	4	3041347	AC	13-Apr-23	4500-CI-B	QR-03
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134 3041304 JH 14-Apr-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

Surrogate: 1-Chlorooctane 105 % 48.2-134 3041313 MS 14-Apr-23 8015B

Surrogate: 1-Chlorooctadecane 112 % 49.1-148 3041313 MS 14-Apr-23 8015B

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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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S - 4 1'
H231682-10 (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	3041347	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			117 %	71.5-134		3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %	48.2-134		3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			113 %	49.1-148		3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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S - 5 1'
H231682-11 (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	3041347	AC	13-Apr-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			117 %	71.5-134		3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.5 %	48.2-134		3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %	49.1-148		3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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S - 6 20'
H231682-12 (Soil)

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

Inorganic Compounds

Chloride	2960		16.0	mg/kg	4	3041347	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			108 %	48.2-134		3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			116 %	49.1-148		3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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S - 7 20'
H231682-13 (Soil)

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

Inorganic Compounds

Chloride	1760		16.0	mg/kg	4	3041347	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %	71.5-134		3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			106 %	48.2-134		3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			113 %	49.1-148		3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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S - 8 20'
H231682-14 (Soil)

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

Inorganic Compounds

Chloride	3000		16.0	mg/kg	4	3041347	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %	71.5-134		3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			105 %	48.2-134		3041313	MS	14-Apr-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			112 %	49.1-148		3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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S - 9 3'

H231682-15 (Soil)

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

Inorganic Compounds

Chloride	256		16.0	mg/kg	4	3041347	AC	13-Apr-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3041304	JH	14-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3041304	JH	14-Apr-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3041304	JH	14-Apr-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041313	MS	14-Apr-23	8015B	

Surrogate: 1-Chlorooctane			106 %	48.2-134		3041313	MS	14-Apr-23	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	49.1-148		3041313	MS	14-Apr-23	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041346 - 1:4 DI Water										
Blank (3041346-BLK1)										
Prepared & Analyzed: 13-Apr-23										
Chloride	ND	16.0	mg/kg							
LCS (3041346-BS1)										
Prepared & Analyzed: 13-Apr-23										
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (3041346-BSD1)										
Prepared & Analyzed: 13-Apr-23										
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 3041347 - 1:4 DI Water										
Blank (3041347-BLK1)										
Prepared & Analyzed: 13-Apr-23										
Chloride	ND	16.0	mg/kg							
LCS (3041347-BS1)										
Prepared & Analyzed: 13-Apr-23										
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (3041347-BSD1)										
Prepared & Analyzed: 13-Apr-23										
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
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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 3041304 - Volatiles

Blank (3041304-BLK1)

Prepared: 13-Apr-23 Analyzed: 14-Apr-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0526		mg/kg	0.0500		105	71.5-134			

LCS (3041304-BS1)

Prepared: 13-Apr-23 Analyzed: 14-Apr-23

Benzene	1.82	0.050	mg/kg	2.00		90.8	81.4-118			
Toluene	1.93	0.050	mg/kg	2.00		96.6	88.7-121			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	86.1-120			
m,p-Xylene	4.24	0.100	mg/kg	4.00		106	88.2-124			
o-Xylene	2.15	0.050	mg/kg	2.00		108	84.9-118			
Total Xylenes	6.39	0.150	mg/kg	6.00		107	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0548		mg/kg	0.0500		110	71.5-134			

LCS Dup (3041304-BSD1)

Prepared: 13-Apr-23 Analyzed: 14-Apr-23

Benzene	1.76	0.050	mg/kg	2.00		87.8	81.4-118	3.32	15.8	
Toluene	1.83	0.050	mg/kg	2.00		91.5	88.7-121	5.38	15.9	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	86.1-120	4.11	16	
m,p-Xylene	4.11	0.100	mg/kg	4.00		103	88.2-124	3.19	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	84.9-118	3.56	16.7	
Total Xylenes	6.19	0.150	mg/kg	6.00		103	87.3-122	3.32	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0533		mg/kg	0.0500		107	71.5-134			

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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: ARKANSAS 23 Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 26-May-23 14:39
-------------------------------------------------------------	----------------------------------------------------------------------------------------------	------------------------------

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 3041313 - General Prep - Organics

Blank (3041313-BLK1)			Prepared & Analyzed: 13-Apr-23							
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	44.9		mg/kg	49.6		90.6	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	47.3		mg/kg	50.0		94.6	49.1-148			

LCS (3041313-BS1)			Prepared & Analyzed: 13-Apr-23							
GRO C6-C10	187	10.0	mg/kg	200		93.3	78.5-124			
DRO >C10-C28	185	10.0	mg/kg	200		92.7	72.5-126			
Total TPH C6-C28	372	10.0	mg/kg	400		93.0	77.6-123			
<i>Surrogate: 1-Chlorooctane</i>	48.7		mg/kg	49.6		98.4	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	48.3		mg/kg	50.0		96.6	49.1-148			

LCS Dup (3041313-BSD1)			Prepared & Analyzed: 13-Apr-23							
GRO C6-C10	182	10.0	mg/kg	200		91.1	78.5-124	2.38	17.7	
DRO >C10-C28	179	10.0	mg/kg	200		89.5	72.5-126	3.46	21	
Total TPH C6-C28	361	10.0	mg/kg	400		90.3	77.6-123	2.92	18.5	
<i>Surrogate: 1-Chlorooctane</i>	48.6		mg/kg	49.6		98.1	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	48.7		mg/kg	50.0		97.3	49.1-148			

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Paragon Environmental Project Manager: Chris Jones Address: 1601 N. Turner St., Ste 500 City: Hobbs Phone #: 575-964-7814 Project #: _____ Project Name: <i>ARKHES 23</i> Project Location: <i>ROUTE 244</i> Sampler Name: <i>April O. Kern</i>		P.O. #: _____ Company: <i>SPUR</i> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D.: <i>19311082</i> Sample I.D.: _____ (G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____ DATE: <i>4-06</i> TIME: _____ PRESERV: _____ SAMPLING: _____		ANALYSIS REQUEST Chlorides _____ TPH _____ BTEX _____	
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Delivered By: (Circle One) <i>-3.8: C.O.U.C.</i> Sampler - UPS - Bus - Other: <i>-4.4: #13</i> Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Checked By: <i>SK</i> (Initials)		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS: _____	



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

April 17, 2023

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: ARKANSAS 23

Enclosed are the results of analyses for samples received by the laboratory on 04/12/23 9:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	04/12/2023	Sampling Date:	04/06/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 11 2' (H231719-01)

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	04/15/2023	ND	1.77	88.4	2.00	1.45	
Toluene*	<0.050	0.050	04/15/2023	ND	1.94	97.0	2.00	0.832	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.00	99.9	2.00	0.433	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.07	101	6.00	1.52	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

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	04/14/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	182	91.1	200	0.647	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	180	90.2	200	0.865	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 04/12/2023
 Reported: 04/17/2023
 Project Name: ARKANSAS 23
 Project Number: NOT GIVEN
 Project Location: SPUR - RURAL EDDY

Sampling Date: 04/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 12 2' (H231719-02)

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	04/15/2023	ND	1.77	88.4	2.00	1.45	
Toluene*	<0.050	0.050	04/15/2023	ND	1.94	97.0	2.00	0.832	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.00	99.9	2.00	0.433	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.07	101	6.00	1.52	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

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	04/14/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	182	91.1	200	0.647	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	180	90.2	200	0.865	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	04/12/2023	Sampling Date:	04/06/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 13 2' (H231719-03)

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	04/15/2023	ND	1.77	88.4	2.00	1.45	
Toluene*	<0.050	0.050	04/15/2023	ND	1.94	97.0	2.00	0.832	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.00	99.9	2.00	0.433	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.07	101	6.00	1.52	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

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	04/14/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	182	91.1	200	0.647	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	180	90.2	200	0.865	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	04/12/2023	Sampling Date:	04/06/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: ESW - 1 (H231719-04)

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	04/15/2023	ND	1.77	88.4	2.00	1.45	
Toluene*	<0.050	0.050	04/15/2023	ND	1.94	97.0	2.00	0.832	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.00	99.9	2.00	0.433	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.07	101	6.00	1.52	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/14/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	182	91.1	200	0.647	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	180	90.2	200	0.865	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 04/12/2023
 Reported: 04/17/2023
 Project Name: ARKANSAS 23
 Project Number: NOT GIVEN
 Project Location: SPUR - RURAL EDDY

Sampling Date: 04/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 2 (H231719-05)

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	04/15/2023	ND	1.77	88.4	2.00	1.45	
Toluene*	<0.050	0.050	04/15/2023	ND	1.94	97.0	2.00	0.832	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.00	99.9	2.00	0.433	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.07	101	6.00	1.52	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

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	04/14/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	182	91.1	200	0.647	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	180	90.2	200	0.865	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 04/12/2023
 Reported: 04/17/2023
 Project Name: ARKANSAS 23
 Project Number: NOT GIVEN
 Project Location: SPUR - RURAL EDDY

Sampling Date: 04/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 3 (H231719-06)

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	04/15/2023	ND	1.77	88.4	2.00	1.45	
Toluene*	<0.050	0.050	04/15/2023	ND	1.94	97.0	2.00	0.832	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.00	99.9	2.00	0.433	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.07	101	6.00	1.52	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

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	04/14/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	182	91.1	200	0.647	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	180	90.2	200	0.865	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	04/12/2023	Sampling Date:	04/06/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: NSW - 1 (H231719-07)

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	04/15/2023	ND	1.77	88.4	2.00	1.45	
Toluene*	<0.050	0.050	04/15/2023	ND	1.94	97.0	2.00	0.832	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.00	99.9	2.00	0.433	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.07	101	6.00	1.52	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/14/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	182	91.1	200	0.647	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	180	90.2	200	0.865	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	04/12/2023	Sampling Date:	04/06/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: NSW - 2 (H231719-08)

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	04/15/2023	ND	1.77	88.4	2.00	1.45		
Toluene*	<0.050	0.050	04/15/2023	ND	1.94	97.0	2.00	0.832		
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.00	99.9	2.00	0.433		
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.07	101	6.00	1.52		
Total BTEX	<0.300	0.300	04/15/2023	ND						

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

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	04/14/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	182	91.1	200	0.647		
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	180	90.2	200	0.865		
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	04/12/2023	Sampling Date:	04/06/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: NSW - 3 (H231719-09)

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	04/15/2023	ND	1.77	88.4	2.00	1.45	
Toluene*	<0.050	0.050	04/15/2023	ND	1.94	97.0	2.00	0.832	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.00	99.9	2.00	0.433	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.07	101	6.00	1.52	
Total BTEX	<0.300	0.300	04/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	182	91.1	200	0.647	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	180	90.2	200	0.865	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental		BILL TO	
Project Manager: Chris Jones		P.O. #:	
Address: 1601 N. Turner St., Ste 500		Company:	Shur Energy
City: Hobbs		Attn:	
Phone #: 575-964-7814		Address:	
Project #: _____		City:	
Project Name: Arkansas 23		State:	
Project Location: Pyle Eds		Zip:	
Sampler Name: Pyle Eds		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H23179	5-11	2	1							4-6		Chlorides
	5-12	2	1									T PH
	5-13	2	1									BTX
	ESW-1											
	ESW-2											
	ESW-3											
	NSW-1											
	NSW-2											
	NSW-3											
	NSW-4											
	NSW-5											
	NSW-6											
	NSW-7											
	NSW-8											
	NSW-9											
	NSW-10											

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Relinquished By: *[Signature]* Date: 4-12-23 Time: 0950
 Received By: *[Signature]* Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Delivered By: (Circle One) UPS Bus Other
 Sampler - UPS - Bus - Other: 4.8c / 4.2c
 Sample Condition: Intact Cool Yes No
 CHECKED BY: *[Signature]*

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



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

April 26, 2023

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: ARKANSAS 23

Enclosed are the results of analyses for samples received by the laboratory on 04/21/23 17:00.

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".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	04/21/2023	Sampling Date:	04/21/2023
Reported:	04/26/2023	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 1 3' (H231973-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/25/2023	ND	416	104	400	3.77	

Sample ID: S - 2 3' (H231973-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/25/2023	ND	416	104	400	3.77	

Sample ID: S - 3 3' (H231973-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/25/2023	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental Project Manager: Chris Jones Address: 225 Billy Walker Rd City: Hobbs State: NM Zip: 88240 Phone #: (575)631-6977 Fax #: Project #: Project Name: ARKASIS 23 Project Location: RIVERS EDGE Sampler Name: HAZEL O. KISA <small>FOR LAB USE ONLY</small>		P.O. #: Company: SPV Attn: Address: City: State: Zip: Phone #: Fax #:	
Lab I.D. H231973 1 2 3	Sample I.D. 5-1 5-2 5-3	(G)RAB OR (C)OMP.	# CONTAINERS
		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	MATRIX PRESERV SAMPLING
		ACID/BASE: ICE / COOL OTHER :	DATE TIME
			Chlorides

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Relinquished By: [Signature] **Date:** 4-21-23 **Received By:** [Signature] **Date:** 4-21-23

Relinquished By: [Signature] **Date:** 4-21-23 **Received By:** [Signature] **Date:** 4-21-23

Delivered By: (Circle One) UPS Bus Other: 4.9c / 4.3c

Sample Condition: Cool Ambient Other

Checked By: [Signature]

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



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

June 01, 2023

CHRIS JONES
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: ARKANSAS 23

Enclosed are the results of analyses for samples received by the laboratory on 05/26/23 16:36.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, 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
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 05/26/2023
Reported: 06/01/2023
Project Name: ARKANSAS 23
Project Number: NOT GIVEN
Project Location: SPUR - RURAL EDDY

Sampling Date: 05/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 6 22' (H232718-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.19	110	2.00	0.180	
Toluene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	0.514	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.10	105	2.00	0.102	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.34	106	6.00	0.262	
Total BTEX	<0.300	0.300	05/30/2023	ND					

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

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	05/30/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	208	104	200	6.96	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.4	200	8.73	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/26/2023	Sampling Date:	05/26/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	ARKANSAS 23	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 22' (H232718-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.19	110	2.00	0.180	
Toluene*	0.062	0.050	05/30/2023	ND	2.17	109	2.00	0.514	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.10	105	2.00	0.102	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.34	106	6.00	0.262	
Total BTEX	<0.300	0.300	05/30/2023	ND					

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

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	05/30/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	208	104	200	6.96	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.4	200	8.73	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 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
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 05/26/2023
Reported: 06/01/2023
Project Name: ARKANSAS 23
Project Number: NOT GIVEN
Project Location: SPUR - RURAL EDDY

Sampling Date: 05/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 8 22' (H232718-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTEX	<0.300	0.300	05/30/2023	ND					

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

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	05/30/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	208	104	200	6.96	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.4	200	8.73	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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

CONDITIONS

Action 230272

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 230272
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2118844603 ARKANSAS 23-3, thank you. This closure is approved.	11/21/2023