

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>200.000</u>	<u>50.000</u>	<u>2.750</u>
Cubic Feet Impacted		<u>2291.667</u>
Barrels		<u>408.13</u>
Soil Type		Clay
Bbls Assuming 100% Saturation		<u>40.81</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		40.90000

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

Measurements	
Length (ft)	200
Width (ft)	50
Depth (in)	2.750









August 28, 2024

NMOCD District 2
Mr. Mike Bratcher
Artesia, NM 88210

Bureau of Land Management
Ms. Crisha Morgan
620 East Green Street
Carlsbad, NM 88220

Re: Work Plan
Morris Arco 26 #2
API #30-015-29258
GPS: Latitude 32.6362457 Longitude -104.4521484
U/L "B," Sec. 126, T19S, R25E
Eddy County, NM
NMOCD Ref. No. NAPP2130550702

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform remediation activities for the Release Site known as the Morris Arco 26 #2 (Morris). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	Volume of Release:	40 bbls
		Volume Recovered:	35 bbls
Source of Release:	Polypipe Failure	Date of Release:	8/26/21
Was Immediate Notice Given?	Yes	If, Yes, to Whom?	NMOCD
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	Federal	Mineral Owner:	
Due to corrosion, a valve at the wellhead failed causing a release of fluid onto the ground. The release affected the well pad and adjacent pasture area.			

A Topo and a Wetland/Waterway Maps are provided in Figures #2 and #4.

REGULATORY FRAMEWORK

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

- Depth to Groundwater in the affected area 26-50'
- Method to determine DTW NM OSE
- Did the release impact groundwater or surface water No

Depth to groundwater information is provided in Appendix A.

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

- A Continuously flowing watercourse or any other significant watercourse- 300-500'
- Any lakebed, sinkhole, or playa lake- 1-5 mi
- An occupied permanent residence, school, hospital, institution, or church- 1-5 mi
- A spring or a private domestic fresh water well used by less than 5 households for domestic or stock watering purposes- 1-5 mi
- Any other fresh water well or spring- 1-5 mi
- Incorporated municipal boundaries or a defined municipal fresh water well field- 1-5 mi
- A wetland- 1000'-1/2 mi
- A subsurface mine- >5 mi
- An (non-karst) unstable area- 1000'-1/2 mi
- Categorize the risk of this well/site being in a karst area geology- Medium
- A 100-year floodplain- 300-500'
- Did the release impact areas not on an exploration, development, production, or storage site- Yes

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- 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 the Reagan Upton association, with 0 to 9 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained. There is NOT a high potential for karst geology to be present around the Morris (Figure 3).

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

INITIAL SITE ASSESSMENT & SOIL SAMPLING EVENT

On August 15, 2022, Paragon went to the Morris and conducted an initial site assessment and obtained soil samples. During the initial site assessment, fifteen (15) soil samples were collected in the spill zone, labeled S. During the process of obtaining these samples they were field tested in an effort to determine the vertical extent of soil impact. We obtained an additional nine horizontal samples labeled SW, anticipating these areas will be the edge of our horizontal excavation. These samples were subsequently submitted to an approved laboratory for analysis. A table summarizing the laboratory analytical results from the soil samples collected during the above-stated activities is provided below:

8/15/22 Soil Sample Results

NMOC Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 80')								
Sample Date 8-15-22		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria 100 mg/kg	Closure Criteria 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
SW-1	0-6"	ND	ND	ND	ND	ND	ND	3560
	1' REFUSAL	—	—	—	—	—	—	3400
SW-2	0-6"	ND	ND	ND	ND	ND	ND	1570
	1' REFUSAL	—	—	—	—	—	—	640
SW-3	0-6"	ND	ND	ND	ND	ND	ND	304
	1' REFUSAL	—	—	—	—	—	—	288
SW-4	0-6"	ND	ND	ND	ND	ND	ND	3920
	1' REFUSAL	—	—	—	—	—	—	4880
SW-5	1'	ND	ND	ND	ND	ND	ND	320
	2'	—	—	—	—	—	—	192
	3' REFUSAL	—	—	—	—	—	—	176
SW-6	1'	ND	ND	ND	ND	ND	ND	2760
	2'	—	—	—	—	—	—	2320
	3'	—	—	—	—	—	—	1650
	4' REFUSAL	—	—	—	—	—	—	1220
SW-7	6"	ND	ND	ND	24.6	ND	24.6	96
	1' REFUSAL	—	—	—	—	—	—	80
SW-8	1'	ND	ND	ND	ND	ND	ND	400
	2'	—	—	—	—	—	—	688
SW-9	1'	ND	ND	ND	ND	ND	ND	304
	2'	—	—	—	—	—	—	448
S-1	1'	ND	ND	ND	ND	ND	ND	1250
	1.5' REFUSAL	—	—	—	—	—	—	1600
S-2	6"-1'	ND	ND	ND	ND	ND	ND	1310
S-3	6"-1'	ND	ND	ND	ND	ND	ND	4040
	1.5' REFUSAL	—	—	—	—	—	—	5920
S-4	1'	ND	ND	ND	23.7	ND	23.7	4360
	2'	—	—	—	—	—	—	5360
S-5	0-6"	ND	ND	ND	ND	ND	ND	560
	1' REFUSAL	—	—	—	—	—	—	800
S-6	1'	ND	ND	ND	ND	ND	ND	1100
	2'	—	—	—	—	—	—	1390
S-7	1'	ND	ND	ND	16.1	ND	16.1	3080
	2'	—	—	—	—	—	—	2240
	3'	—	—	—	—	—	—	2680
	4' REFUSAL	—	—	—	—	—	—	2640
S-8	1'	ND	ND	ND	ND	ND	ND	368
	2'	—	—	—	—	—	—	224
	3'	—	—	—	—	—	—	464
	4'	—	—	—	—	—	—	832
S-9	1'	ND	ND	ND	ND	ND	ND	80
	2'	—	—	—	—	—	—	96
	3' REFUSAL	—	—	—	—	—	—	48
S-10	1'	ND	ND	ND	ND	ND	ND	96
	2'	—	—	—	—	—	—	304
	3'	—	—	—	—	—	—	240
	3.5' REFUSAL	—	—	—	—	—	—	192
S-11	1'	ND	ND	ND	ND	ND	ND	208
	2'	—	—	—	—	—	—	192
	3' REFUSAL	—	—	—	—	—	—	144
S-12	1'	ND	ND	ND	ND	ND	ND	48
	2'	—	—	—	—	—	—	48
	3'	—	—	—	—	—	—	32
	4'	—	—	—	—	—	—	16
S-13	1'	ND	ND	ND	ND	ND	ND	16
	2'	—	—	—	—	—	—	32
	3'	—	—	—	—	—	—	16
	3.5' REFUSAL	—	—	—	—	—	—	ND
S-14	1'	ND	ND	ND	ND	ND	ND	16
	2'	—	—	—	—	—	—	ND
	3'	—	—	—	—	—	—	32
	4'	—	—	—	—	—	—	112
S-15	1'	ND	ND	ND	ND	ND	ND	48
	2'	—	—	—	—	—	—	48
	3'	—	—	—	—	—	—	160
	4'	—	—	—	—	—	—	160

On December 16, 2022, Paragon returned to the site to complete the delineation process in the areas that weren't completely delineated. The results of this sampling event are in the following data table:

12/15/22 Sample Results

NMOC Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')		
Sample Date 12-16-22		Closure Criteria ≤ 600 mg/kg
Sample ID	Depth (BGS)	CHLORIDES
SW-1	2'	1820
	3'	1870
	4'	1570
	5'	1300
	6'	224
SW-2	2'	464
	3'	592
SW-4	2'	368
	3'	496
	4'	256
	5'	272
SW-6	5'	528
	6'	448
SW-8	3'	2530
	4'	2270
	5'	208
S-1	3'	1890
	4'	1070
	5'	1010
	6'	880
	7'	704
	8'	656
	9'	656
	10'	624
S-2	2'	448
	3'	1230
	4'	912
	5'	960
	6'	32
S-3	3'	1170
	4'	1150
	5'	2380
	6'	2240
	7'	976
	8'	704
	9'	896
S-4	10'	384
	3'	1700
	4'	1740
	5'	976
	6'	1180
	7'	1280
	8'	1360
S-5	9'	128
	2'	96
S-6	3'	80
	3'	480
	4'	912
	5'	1020
	6'	656
S-7	7'	224
	5'	80
	6'	64

Laboratory analytical reports are provided in Appendix C. A Site Map is provided in Figure 1

PROPOSED REMEDIATION ACTIVITIES

Based on the analytical results, site characteristics, and field observations made during the site assessment, Paragon recommends the following remedial activities be conducted to advance the Release Site towards an NMOCD and BLM-approved closure:

- Utilizing mechanical equipment, we will excavate the impacted soils that were above the NMOCD Closure Criteria to depths ranging from 2-10 feet BGS. See Excavation Map for the below areas of excavation and different depths, map is attached in Figure 5.
 - The areas of S-1 and S-3 will be excavated to a depth of 10 feet BGS. They are approximately 4170 s/f and 1545 cubic yards.
 - The area of S-2 will be excavated to a depth of 6 feet BGS. It is approximately 5280 s/f and 1175 yards.
 - The area of S-4 will be excavated to a depth of 9 feet BGS. It is approximately 1600 s/f and 540 yards.
 - The areas of S-5, SW-2, and SW-4 will be excavated to a depth of 2 feet BGS. These areas are approximately 2010 s/f and 155 yards.
 - The area of S-6 will be excavated to a depth of 7 feet BGS. It is approximately 1610 s/f and 420 yards.
 - The areas of S-7 and SW-8 will be excavated to a depth of 5 feet BGS. These areas are approximately 2350 s/f and 450 yards.
- A confirmation soil sampling event in accordance with 19.15.19.12 NMAC will be conducted, giving the OCD a 48-hour notification.

If you have any questions or need any additional information, please feel free to contact Chris Jones by phone or email.

Respectfully,



Chris Jones
Environmental Professional
Paragon Environmental, LLC

Attachments

Figures:

- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Wetland & Waterway Map
- 5- Excavation Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and FEMA Flood Map
- Appendix C – Laboratory Reports



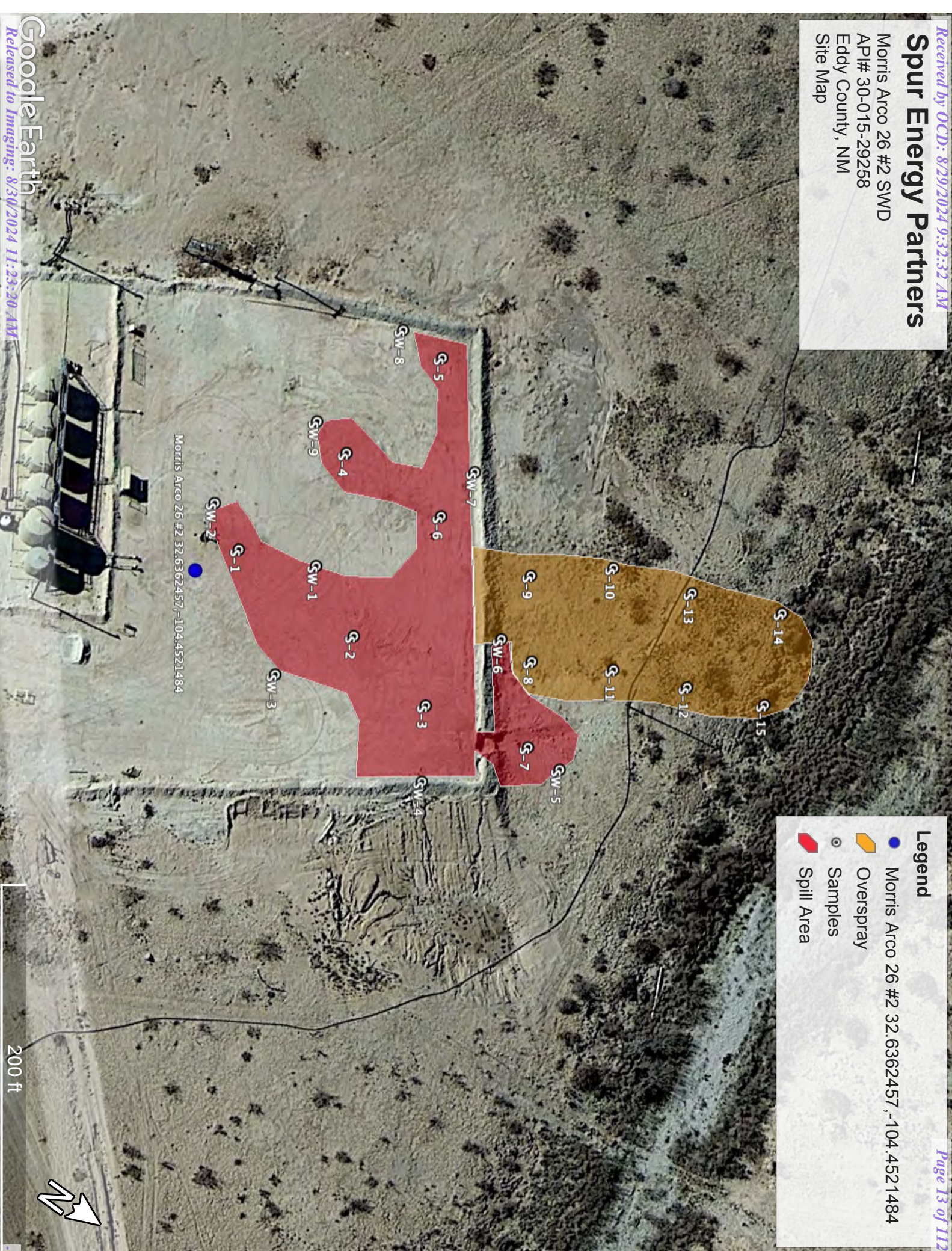
Figures:

- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Wetland & Waterway Map
- 5- Excavation Map

Spur Energy Partners

Morris Arco 26 #2 SWD
API# 30-015-29258
Eddy County, NM
Site Map

Google Earth
Released to Imaging: 8/30/2024 11:23:20 AM

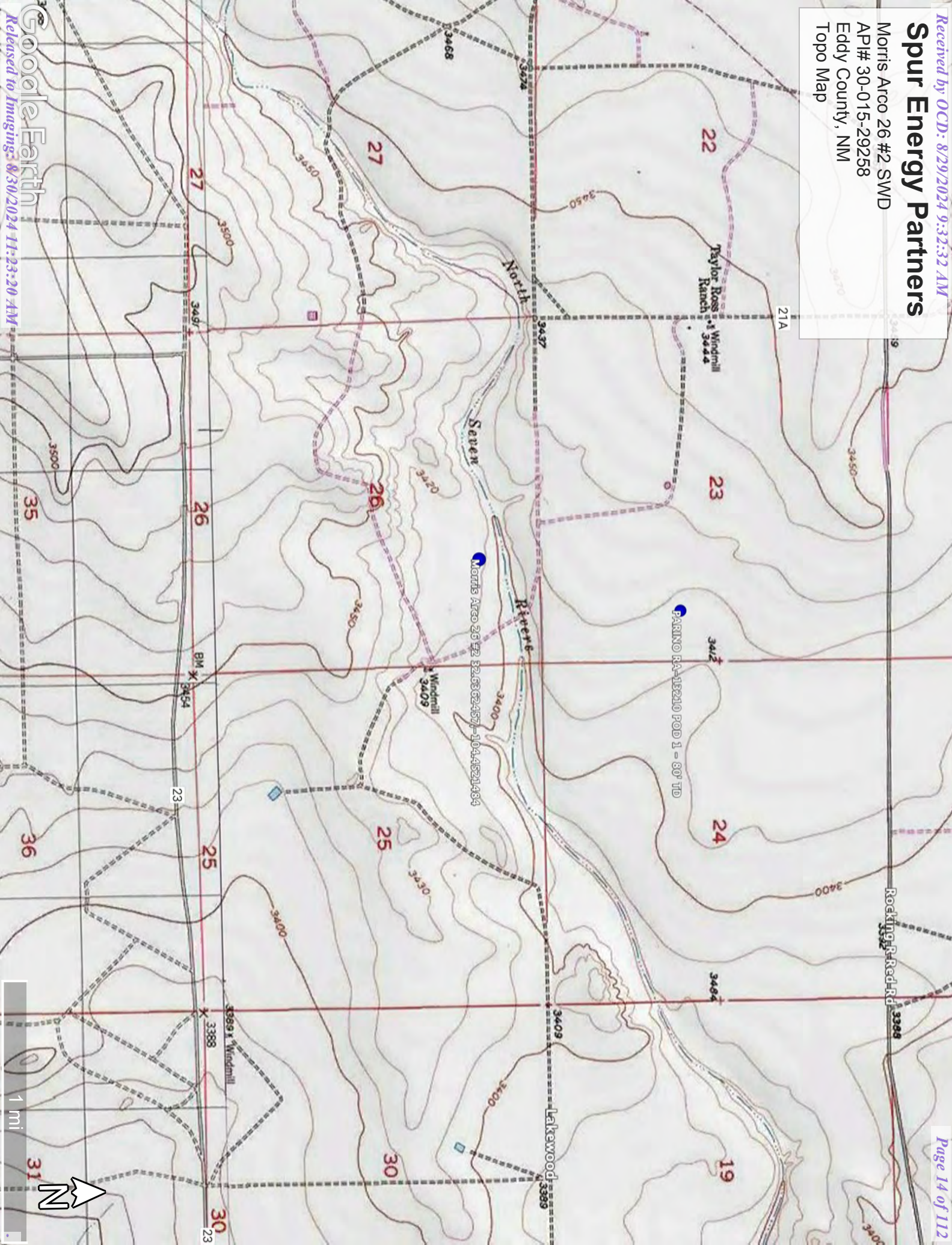


Legend

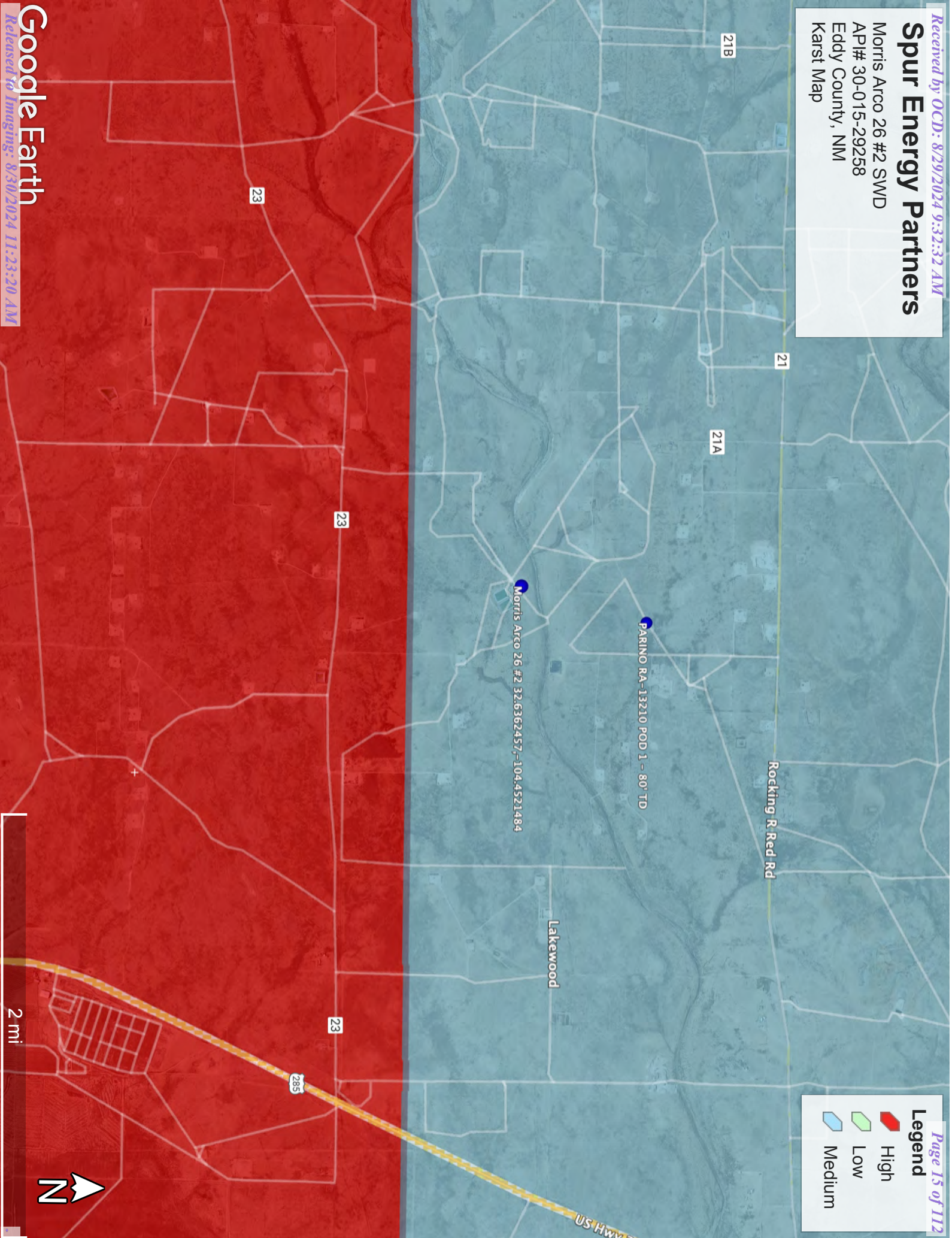
- Morris Arco 26 #2 32.6362457, -104.4521484
- Overspray
- Samples
- Spill Area

Spur Energy Partners

Morris Arco 26 #2 SWD
API# 30-015-29258
Eddy County, NM
Topo Map





Morris Arco 26 #2 SWD
API# 30-015-29258
Eddy County, NM
Karst Map

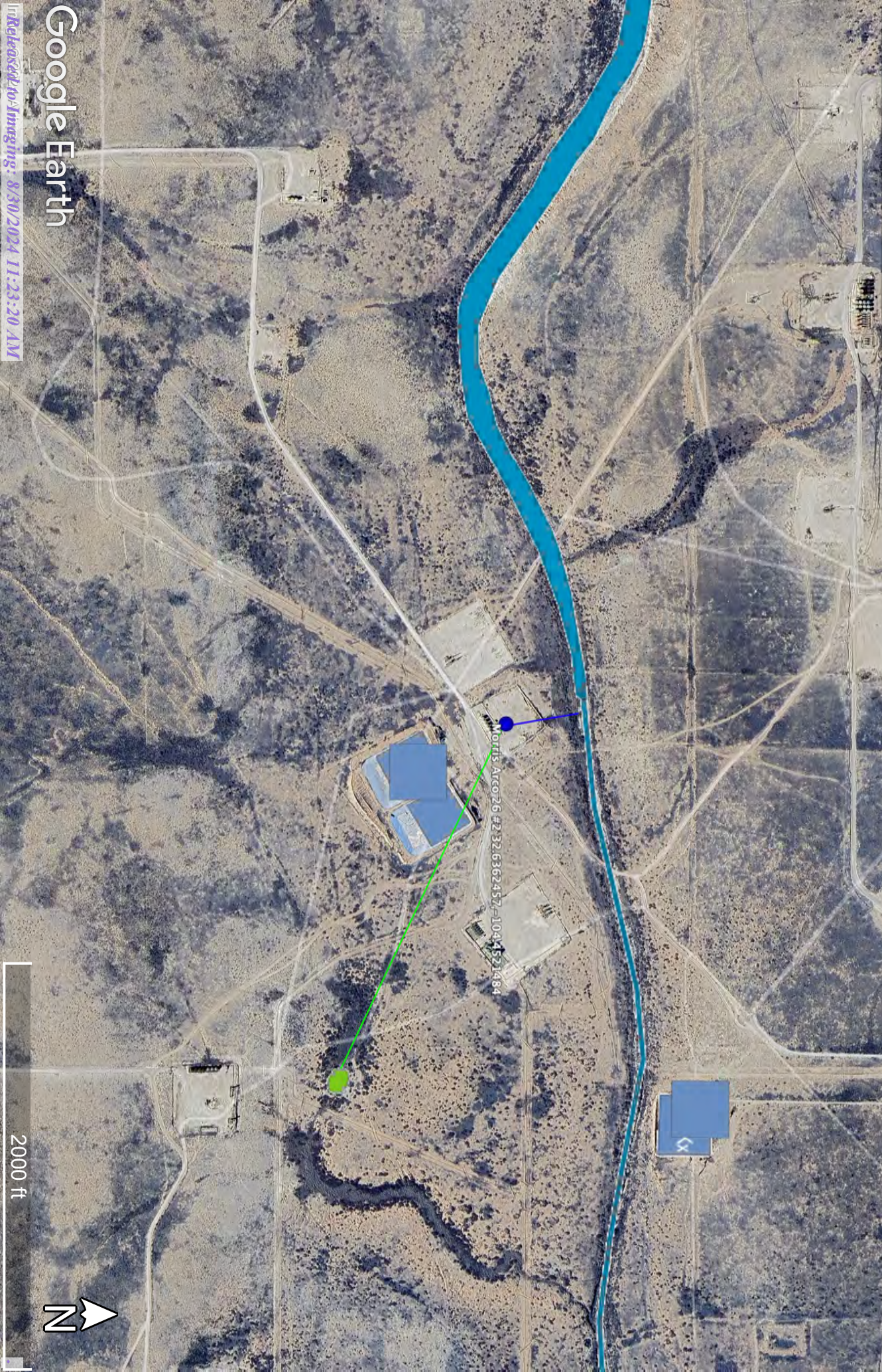


Spur Energy Partners

Morris Arco 26 #2
API# 30-015-29258
Eddy County, NM
Wetland & Waterway Map

Legend

-  Waterway 363 Feet
-  Wetlands 0.35 Mile



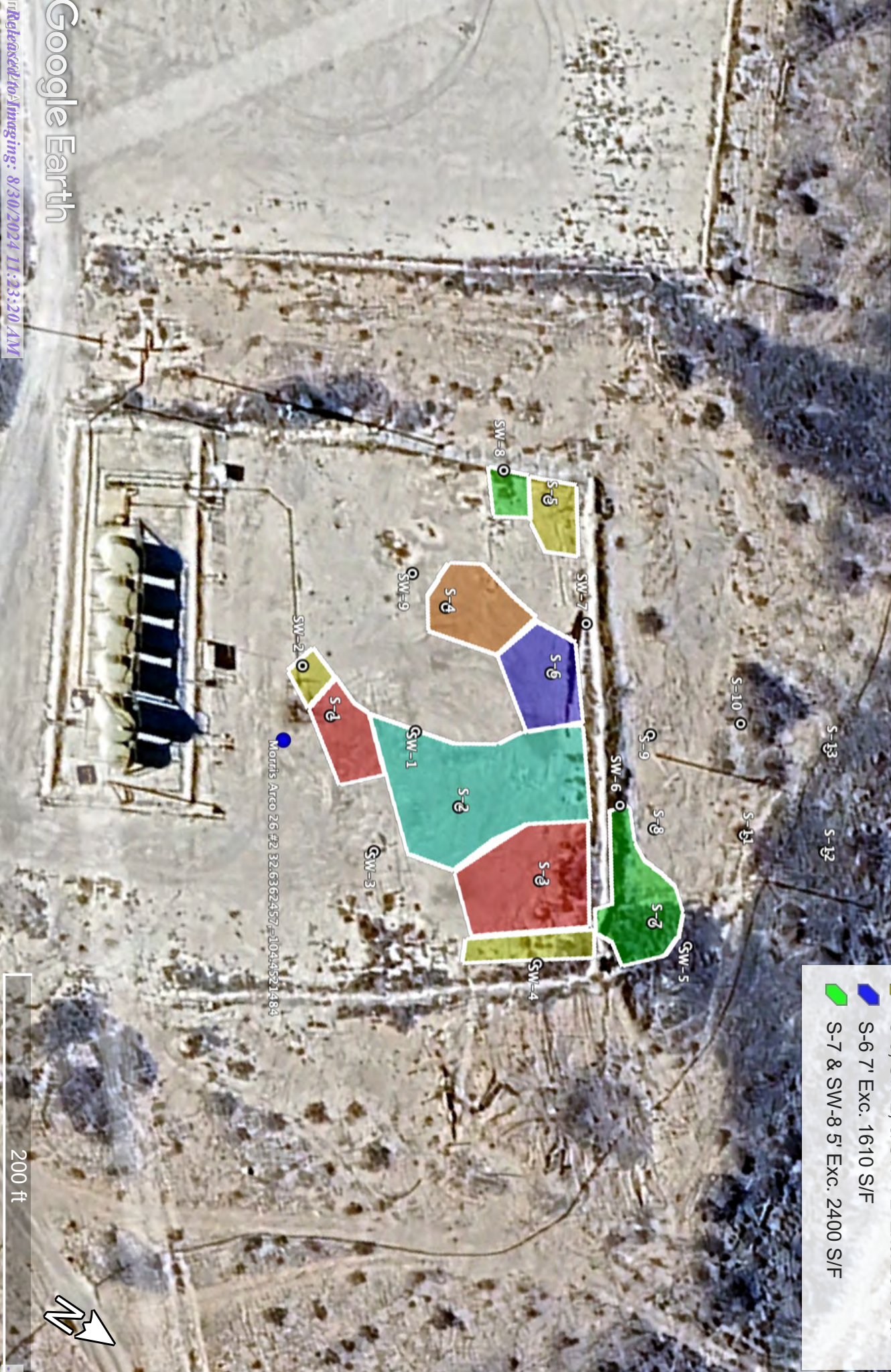
Google Earth

Spur Energy Partners

Morris Arco 26 #2
API# 30-015-29258
Eddy County, NM
Excavation Map

Legend

	S-1 & S-3 10' Exc 4170 S/F
	S-2 6' Exc. 5280 S/F
	S-4 9' Exc. 1600 S/F
	S-5, SW-2, & SW-4 2' Exc. 2010 S/F
	S-6 7' Exc. 1610 S/F
	S-7 & SW-8 5' Exc. 2400 S/F





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		Q Q Q Q				X		Y	DistanceDepthWellDepthWater Column						
POD Number	Code	Sub-basin	County	64	16	4	Sec	Tws	Rng						
RA 10496	RA	ED	3	3	4	25	19S	25E	552801	3609865*		1872	110	40	70

Average Depth to Water: 40 feet
Minimum Depth: 40 feet
Maximum Depth: 40 feet

Record Count: 1

UTMNAD83_Radius_Search_(in.meters):

Easting (X): 551388.308 Northing (Y): 3611094 Radius: 2000

*UTM location was derived from PLSS - see Help

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

8/18/22 11:51 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

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

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w5d

Elevation: 1,100 to 5,400 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent

Upton and similar soils: 25 percent

Minor components: 5 percent

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

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 6e

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

Hydrologic Soil Group: B
Ecological site: R070DY153NM - Loamy
Hydric soil rating: No

Description of Upton

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070DY159NM - Shallow Loamy
Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 3 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Pima

Percent of map unit: 2 percent
Ecological site: R042XC017NM - Bottomland

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

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 17, Sep 12, 2021

National Flood Hazard Layer FIRMette

104°27'27"W 32°38'25"N



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

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 OF FLOOD HAZARD

	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

20.2 Cross Sections with 1% Annual Chance Water Surface Elevation

17.5 Coastal Transect

8.13 Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

OTHER FEATURES

	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 **8/18/2022 at 1:45 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:
Laboratory Results



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

August 19, 2022

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: MORRIS ARCO 26 #2 SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/16/22 9:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 1 0-6" (H223730-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	5.07		
Toluene*	<0.050	0.050	08/17/2022	ND	2.00	100	2.00	5.07		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.96	98.0	2.00	5.53		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.13	102	6.00	6.35		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	08/17/2022	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	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 122 % 43-149

Surrogate: 1-Chlorooctadecane 145 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 1 1' REFUSAL (H223730-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	08/17/2022	ND	416	104	400	0.00		

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

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 2 0-6" (H223730-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	5.07	
Toluene*	<0.050	0.050	08/17/2022	ND	2.00	100	2.00	5.07	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.96	98.0	2.00	5.53	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.13	102	6.00	6.35	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	08/17/2022	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	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 2 1' REFUSAL (H223730-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	08/17/2022	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 3 0-6" (H223730-05)

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	08/17/2022	ND	2.03	102	2.00	5.07		
Toluene*	<0.050	0.050	08/17/2022	ND	2.00	100	2.00	5.07		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.96	98.0	2.00	5.53		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.13	102	6.00	6.35		
Total BTEx	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	08/17/2022	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	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 120 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 3 1' REFUSAL (H223730-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/17/2022	ND	416	104	400	0.00		

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

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 4 0-6" (H223730-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	5.07		
Toluene*	<0.050	0.050	08/17/2022	ND	2.00	100	2.00	5.07		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.96	98.0	2.00	5.53		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.13	102	6.00	6.35		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	08/17/2022	ND	432	108	400	3.77	QM-07, QR-03

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 120 % 42.5-161

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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 4 1' REFUSAL (H223730-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	08/17/2022	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 5 1' (H223730-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7	
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	08/17/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 5 2' (H223730-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/17/2022	ND	432	108	400	3.77		

Sample ID: SW - 5 3' REFUSAL (H223730-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/17/2022	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 6 1' (H223730-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7	
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	08/17/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 6 2' (H223730-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	08/17/2022	ND	432	108	400	3.77		

Sample ID: SW - 6 3' (H223730-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	08/17/2022	ND	432	108	400	3.77		

Sample ID: SW - 6 4' (H223730-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	08/17/2022	ND	432	108	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
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 7 6" (H223730-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7		
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/17/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	24.6	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 43-149

Surrogate: 1-Chlorooctadecane 99.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 7 1' REFUSAL (H223730-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/17/2022	ND	432	108	400	3.77		

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

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 8 1' (H223730-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7	
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	08/17/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 43-149

Surrogate: 1-Chlorooctadecane 98.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 8 2' (H223730-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	08/17/2022	ND	432	108	400	3.77		

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

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 9 1' (H223730-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7	
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/17/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 105 % 43-149

Surrogate: 1-Chlorooctadecane 122 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 9 2' (H223730-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	08/17/2022	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 1 1' (H223730-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7	
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	08/17/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 1 1.5' REFUSAL (H223730-23)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	08/17/2022	ND	432	108	400	3.77	

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 6"-1' REFUSAL (H223730-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7		
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1		
Total BTEx	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1310	16.0	08/17/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	192	96.0	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	228	114	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 3 6''-1' (H223730-25)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7		
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1		
Total BTX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4040	16.0	08/17/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 43-149

Surrogate: 1-Chlorooctadecane 99.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 3 1.5' REFUSAL (H223730-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	08/17/2022	ND	432	108	400	3.77		

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 4 1' (H223730-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7		
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1		
Total BTEx	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	08/17/2022	ND	416	104	400	0.00	QM-07, QR-03

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	23.7	10.0	08/16/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 102 % 43-149

Surrogate: 1-Chlorooctadecane 114 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 4 2' (H223730-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	08/17/2022	ND	416	104	400	0.00	

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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 5 0-6" REFUSAL (H223730-29)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7		
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	08/17/2022	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	08/16/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 43-149

Surrogate: 1-Chlorooctadecane 77.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 5 1' REFUSAL (H223730-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	08/17/2022	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 6 1' (H223730-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7		
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	08/17/2022	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	08/16/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 43-149

Surrogate: 1-Chlorooctadecane 89.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 6 2' (H223730-32)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	08/17/2022	ND	416	104	400	0.00	

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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 7 1' (H223730-33)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	1.97	98.7	2.00	5.91	
Toluene*	<0.050	0.050	08/17/2022	ND	1.95	97.4	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.89	94.7	2.00	5.32	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.89	98.2	6.00	4.81	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	08/17/2022	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	08/16/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	16.1	10.0	08/16/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 43-149

Surrogate: 1-Chlorooctadecane 98.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 7 2' (H223730-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	08/17/2022	ND	416	104	400	0.00		

Sample ID: S - 7 3' (H223730-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/17/2022	ND	416	104	400	0.00	

Sample ID: S - 7 4' (H223730-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	08/17/2022	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 8 1' (H223730-37)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	1.97	98.7	2.00	5.91	
Toluene*	<0.050	0.050	08/17/2022	ND	1.95	97.4	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.89	94.7	2.00	5.32	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.89	98.2	6.00	4.81	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	08/17/2022	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	08/17/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 43-149

Surrogate: 1-Chlorooctadecane 95.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 8 2' (H223730-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/17/2022	ND	416	104	400	0.00		

Sample ID: S - 8 3' (H223730-39)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	08/17/2022	ND	416	104	400	0.00		

Sample ID: S - 8 4' (H223730-40)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	08/17/2022	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 9 1' (H223730-41)

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	08/17/2022	ND	1.97	98.7	2.00	5.91	
Toluene*	<0.050	0.050	08/17/2022	ND	1.95	97.4	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.89	94.7	2.00	5.32	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.89	98.2	6.00	4.81	
Total BTEx	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/17/2022	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	08/17/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 9 2' (H223730-42)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/17/2022	ND	416	104	400	0.00	

Sample ID: S - 9 3' REFUSAL (H223730-43)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/17/2022	ND	416	104	400	0.00	

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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 10 1' (H223730-44)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	1.97	98.7	2.00	5.91	
Toluene*	<0.050	0.050	08/17/2022	ND	1.95	97.4	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.89	94.7	2.00	5.32	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.89	98.2	6.00	4.81	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/17/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 64.4 % 43-149

Surrogate: 1-Chlorooctadecane 73.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 10 2' (H223730-45)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	08/17/2022	ND	416	104	400	0.00		

Sample ID: S - 10 3' (H223730-46)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/17/2022	ND	416	104	400	0.00		

Sample ID: S - 10 3.5' REFUSAL (H223730-47)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/17/2022	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 11 1' (H223730-48)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	1.97	98.7	2.00	5.91	
Toluene*	<0.050	0.050	08/17/2022	ND	1.95	97.4	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.89	94.7	2.00	5.32	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.89	98.2	6.00	4.81	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/17/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 43-149

Surrogate: 1-Chlorooctadecane 97.1 % 42.5-161

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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 11 2' (H223730-49)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/17/2022	ND	416	104	400	3.77		

Sample ID: S - 11 3' REFUSAL (H223730-50)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/17/2022	ND	416	104	400	3.77	

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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 12 1' (H223730-51)

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	08/17/2022	ND	1.97	98.7	2.00	5.91	
Toluene*	<0.050	0.050	08/17/2022	ND	1.95	97.4	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.89	94.7	2.00	5.32	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.89	98.2	6.00	4.81	
Total BTEx	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/17/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 70.0 % 43-149

Surrogate: 1-Chlorooctadecane 81.3 % 42.5-161

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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 12 2' (H223730-52)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/17/2022	ND	416	104	400	3.77		

Sample ID: S - 12 3' (H223730-53)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/17/2022	ND	416	104	400	3.77		

Sample ID: S - 12 4' (H223730-54)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/17/2022	ND	416	104	400	3.77		

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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 13 1' (H223730-55)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	1.97	98.7	2.00	5.91		
Toluene*	<0.050	0.050	08/17/2022	ND	1.95	97.4	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.89	94.7	2.00	5.32		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.89	98.2	6.00	4.81		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/17/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 43-149

Surrogate: 1-Chlorooctadecane 99.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 13 2' (H223730-56)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/17/2022	ND	416	104	400	3.77		

Sample ID: S - 13 3' (H223730-57)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	416	104	400	3.77	

Sample ID: S - 13 3.5' REFUSAL (H223730-58)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/17/2022	ND	416	104	400	3.77		

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Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 14 1' (H223730-59)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	1.97	98.7	2.00	5.91		
Toluene*	<0.050	0.050	08/17/2022	ND	1.95	97.4	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.89	94.7	2.00	5.32		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.89	98.2	6.00	4.81		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/17/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	195	97.7	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	226	113	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 43-149

Surrogate: 1-Chlorooctadecane 95.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 14 2' (H223730-60)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/17/2022	ND	416	104	400	3.77		

Sample ID: S - 14 3' (H223730-61)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/17/2022	ND	416	104	400	3.77		

Sample ID: S - 14 4' (H223730-62)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/17/2022	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
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 15 1' (H223730-63)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	1.97	98.7	2.00	5.91		
Toluene*	<0.050	0.050	08/17/2022	ND	1.95	97.4	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.89	94.7	2.00	5.32		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.89	98.2	6.00	4.81		
Total BTX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/17/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	195	97.7	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	226	113	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 43-149

Surrogate: 1-Chlorooctadecane 80.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/16/2022
Reported: 08/19/2022
Project Name: MORRIS ARCO 26 #2 SWD
Project Number: SPUR
Project Location: 32.636246-103.452198

Sampling Date: 08/15/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 15 2' (H223730-64)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/17/2022	ND	416	104	400	3.77		

Sample ID: S - 15 3' (H223730-65)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/17/2022	ND	416	104	400	3.77		

Sample ID: S - 15 4' (H223730-66)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/17/2022	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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: Morris Aveo 26 #12 SWJ

Project Location: 32.656240, -104.452148

Sampler Name:

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: SPUR

Attn: Brock Walker

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D. Sample I.D.

H223730

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

DATE TIME

TPH Ext
BTEX
Chlorides at
TPH
BTEX
Cl all

8/16/22

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Relinquished By:

Date: 8/16

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 8/16

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

-1.2°C C.O.C.

Sample Condition
Cool Intact
Yes ☒ No ☐

CHECKED BY:
(Initials)

Sampler - UPS - Bus - Other:

-1.8°C DH13

Sample Condition
Cool Intact
Yes ☒ No ☐

CHECKED BY:
(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

Company Name: Paragon Environmental

Project Manager: Chris Jones

Address: 225 Billy Walker Rd

City: Hobbs

Phone #: (575)631-6977

Project #:

Project Name: Morris Aveo 210 #12 SWD

Project Location: 32.130240, -104.452148

Sampler Name:

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: SPUR

Attn: Bryan Wicker

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D. Sample I.D.

11 SW-5 3' Refusal

12 SW-6 1'

13 SW-6 2'

14 SW-6 3'

15 SW-6 4'

16 SW-7 6"

17 SW-9 1' Refusal

18 SW-8 1'

19 SW-8 2'

20 SW-9 1'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH EXT.

BTX

Chlorides all

TPH

BTX

10-102
8/10/24

PLEASE NOTE: Liability and Damages: Cardinal's liability and direct expenses remain for any other testing not listed on this form. 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 services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or resulting from the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Time:

Date:

Received By:

Time:

Date:

Delivered By: (Circle One)

Sample - UPS - Bus - Other:

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY:
(Initials)

REMARKS:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

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

Company Name: Paragon Environmental		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Chris Jones		Company: Spv					
Address: 225 Billy Walker Rd		Attn: Brock Walker					
City: Hobbs		State: NM Zip: 88240					
Phone #: (575) 631-6977 Fax #:		Address:					
Project #:		City:					
Project Name: Morris Arce 26 #12 SWD		State: Zip:					
Project Location:		Phone #:					
Sample Name:		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL
							SLUDGE
							OTHER:
							ACID/BASE:
							ICE / COOL
							OTHER:
							DATE
							TIME
HE23730	Su-A 2'	4					8/15
21	Su-A 2'						
22	S-1 1' 1/2" Relined						
23	S-1 1' 1/2" Relined						
24	S-2 6" - 1' Relined						
25	S-2 1' 1/2" - 1' Relined						
26	S-3 1' 1/2" Relined						
27	S-4 1' - 1' Relined						
28	S-4 2'						
29	S-5 0.6" Relined						
30	S-5 1' Relined						
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Relinquished By:		Date:		Time:		Received By:	
Relinquished By:		Date:		Time:		Received By:	
Delivered By: (Circle One)		Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:		Cool Intact		(Initials)			
-1.23 C.O. 6.6		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
-1.86 #113		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:			
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:			
REMARKS:		TPH Ext. BTEX Chlorides all TPH BTEX 8/16/24					



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental

Project Manager: Chris Jones

Address: 225 Billy Walker Rd

City: Hobbs

Phone #: (575)631-6977

Project #:

Project Name: Morris Aveo 26 #2 SUD

Project Location:

Sampler Name:

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: SPUE

Attn: Brock Wobley

Address:

City:

State:

Zip:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Chris Jones		Company: SRIC					
Address: 225 Billy Walker Rd		Attn: Brock Weller					
City: Hobbs		Address:					
State: NM Zip: 88240		City:					
Phone #: (575)631-6977 Fax #:		State: Zip:					
Project #:		Project Owner: SRIC					
Project Location: Morris Area 26 #2 SWID		Phone #:					
Sample Name:		Fax #:					
FOR LAB USE ONLY		PRESERV		SAMPLING			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		DATE		TIME	
		# CONTAINERS	DATE		TIME		
		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL					
		OTHER :					
4223730	S-12 1'	8		8/5			
	S-12 2'						
	S-12 3'						
	S-12 4'						
	S-15 1'						
	S-15 2'						
	S-13 3'						
	S-13 5 1/2' 2nd soil						
	S-14 1'						
	S-14 2'						
PLEASE NOTE: Liability and Damages, Cardinal's liability and clients' responsibility for any claim arising from this report shall be limited to the amount paid by the client for this analysis. All claims, including those for negligence and any other claims 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 negligent or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates, or associated entities out of or related to the performance of services provided by Cardinal, regardless of whether such claim is based upon any of the above stated actions or otherwise.							
Relinquished By:		Date: 8/16		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Time: 9:13		Date: 8/16		Time: 9:13		REMARKS:	
Delivered By: (Circle One) -1.8e 0.0.6e		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 7.2e			
Sampler - UPS - Bus - Other: -1.8e #113		<input type="checkbox"/> Yes <input type="checkbox"/> No					

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

December 21, 2022

CASON SPURLOCK

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: MORRIS ARCO 26

Enclosed are the results of analyses for samples received by the laboratory on 12/16/22 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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/16/2022
 Reported: 12/21/2022
 Project Name: MORRIS ARCO 26
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 2' (H225984-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1820	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: SW - 1 3' (H225984-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1870	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: SW - 1 4' (H225984-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: SW - 1 5' (H225984-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	12/21/2022	ND	416	104	400	3.92	

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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: 12/16/2022
 Reported: 12/21/2022
 Project Name: MORRIS ARCO 26
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 2' (H225984-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: SW - 2 3' (H225984-06)

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	12/21/2022	ND	416	104	400	3.92		

Sample ID: SW - 4 2' (H225984-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/21/2022	ND	416	104	400	3.92	

Sample ID: SW - 4 3' (H225984-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: SW - 4 4' (H225984-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/21/2022	ND	416	104	400	3.92		

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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: 12/16/2022
 Reported: 12/21/2022
 Project Name: MORRIS ARCO 26
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 5' (H225984-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: SW - 6 5' (H225984-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: SW - 6 6' (H225984-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: SW - 8 3' (H225984-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2530	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: SW - 8 4' (H225984-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2270	16.0	12/21/2022	ND	416	104	400	3.92		

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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: 12/16/2022
 Reported: 12/21/2022
 Project Name: MORRIS ARCO 26
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 3' (H225984-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1890	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: S - 1 4' (H225984-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	12/21/2022	ND	416	104	400	3.92		

Sample ID: S - 2 2' (H225984-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/21/2022	ND	416	104	400	3.92	

Sample ID: S - 2 3' (H225984-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	12/21/2022	ND	416	104	400	3.92	

Sample ID: S - 2 4' (H225984-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	12/21/2022	ND	416	104	400	7.41	QM-07

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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: 12/16/2022
 Reported: 12/21/2022
 Project Name: MORRIS ARCO 26
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 3' (H225984-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	12/21/2022	ND	416	104	400	7.41	

Sample ID: S - 3 4' (H225984-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	12/21/2022	ND	416	104	400	7.41	

Sample ID: S - 3 5' (H225984-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2380	16.0	12/21/2022	ND	416	104	400	7.41	

Sample ID: S - 4 3' (H225984-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	12/21/2022	ND	416	104	400	7.41	

Sample ID: S - 4 4' (H225984-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1740	16.0	12/21/2022	ND	416	104	400	7.41	

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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: 12/16/2022
 Reported: 12/21/2022
 Project Name: MORRIS ARCO 26
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 5' (H225984-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	12/21/2022	ND	416	104	400	7.41		

Sample ID: S - 5 2' (H225984-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/21/2022	ND	416	104	400	7.41		

Sample ID: S - 5 3' (H225984-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/21/2022	ND	416	104	400	7.41		

Sample ID: S - 6 3' (H225984-28)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	12/21/2022	ND	416	104	400	7.41		

Sample ID: S - 6 4' (H225984-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	12/21/2022	ND	416	104	400	7.41		

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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: 12/16/2022
 Reported: 12/21/2022
 Project Name: MORRIS ARCO 26
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 5' (H225984-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	12/21/2022	ND	416	104	400	7.41		

Sample ID: S - 7 5' (H225984-31)

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	12/21/2022	ND	416	104	400	7.41		

Sample ID: S - 7 6' (H225984-32)

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	12/21/2022	ND	416	104	400	7.41		

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

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

Caley D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental Project Manager: Cason Spurlock Address: 5002 Carriage Rd City: Hobbs Phone #: 575-631-6977 State: NM Zip: 88242 Project #: Project Name: Morris Area 2b Project Location: Eddy County Sample Name: Jeremy Mander		P.O. #: Company: SPu2 Attn: Brady Wilder Address: City: State: Zip: Phone #: Fax #:		BILL TO										ANALYSIS REQUEST									
Lab I.D. #225984 Sample I.D.		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER		MATRIX ACID/BASE ICE / COOL OTHER		DATE TIME		Chlorides															
11 SW.6 5' 12-14 12 SW.6 4' 1 13 SW.8 3' 3 14 SW.8 4' 4 15 S.1 3' 3 16 S.1 4' 2 17 S.2 3' 3 18 S.2 3' 4 19 S.2 3' 4 20 S.3 3																							
Relinquished By: Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date: 12-16-22 Time: 700 Received By: Received By: Time: #113 Sample Condition: Cool: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intake: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) Email results to Chris Jones.		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 #:																			



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

Page 12 of 13



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental Project Manager: Cason Spurlock Address: 5002 Carriage Rd City: Hobbs Phone #: 575-631-6977 State: NM zip: 88242 Project #: Project Name: W. Loria's Aliso 26 Project Location: Eddy County Sample Name: Jeremy Warner				P.O. #: Company: SPUE Attn: Bradley Wolder Address: City: State: Zip: Phone #: Fax #:				BILL TO				ANALYSIS REQUEST			
FOR LAB USE ONLY Lab I.D.: Sample I.D.:		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER		MATRIX PRESERV SAMPLING		DATE TIME		Chlorides							
Reinforced By: Reinforced By:		Date: Time: Date: Time:		Received By: Received By:		Phone Result: Fax Result: REMARKS:		Yes No Add Phone #: Add Fax #: Email results to Chris Jones							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact Yes No Yes No		CHECKED BY: (Initials)		24°C / 1.8°C		#13							



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

January 10, 2023

CASON SPURLOCK

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: MORRIS ARCO

Enclosed are the results of analyses for samples received by the laboratory on 01/05/23 9:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/05/2023
 Reported: 01/10/2023
 Project Name: MORRIS ARCO
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 5' (H230051-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/05/2023	ND	400	100	400	7.69	

Sample ID: SW - 8 5' (H230051-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/05/2023	ND	400	100	400	7.69	

Sample ID: S - 1 5' (H230051-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	01/05/2023	ND	400	100	400	7.69	

Sample ID: S - 1 6' (H230051-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	01/06/2023	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/05/2023
 Reported: 01/10/2023
 Project Name: MORRIS ARCO
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 7' (H230051-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	01/06/2023	ND	416	104	400	3.77		

Sample ID: S - 1 8' (H230051-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	01/06/2023	ND	416	104	400	3.77	

Sample ID: S - 1 9' (H230051-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	01/09/2023	ND	432	108	400	3.64	

Sample ID: S - 1 10' (H230051-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	01/10/2023	ND	432	108	400	0.00	

Sample ID: S - 2 5' (H230051-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	01/05/2023	ND	400	100	400	7.69		

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Analytical Results For:

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

Received: 01/05/2023
 Reported: 01/10/2023
 Project Name: MORRIS ARCO
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 6' (H230051-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/06/2023	ND	432	108	400	0.00		

Sample ID: S - 3 6' (H230051-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	01/05/2023	ND	400	100	400	7.69	

Sample ID: S - 3 7' (H230051-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	01/06/2023	ND	416	104	400	3.77		

Sample ID: S - 3 8' (H230051-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	01/06/2023	ND	416	104	400	3.77	

Sample ID: S - 3 9' (H230051-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	01/06/2023	ND	400	100	400	3.92	

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Analytical Results For:

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

Received: 01/05/2023
 Reported: 01/10/2023
 Project Name: MORRIS ARCO
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 10' (H230051-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/09/2023	ND	432	108	400	3.64	

Sample ID: S - 4 6' (H230051-30)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	01/05/2023	ND	400	100	400	7.69	

Sample ID: S - 4 7' (H230051-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	01/06/2023	ND	416	104	400	3.77	

Sample ID: S - 4 8' (H230051-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	01/06/2023	ND	416	104	400	3.77	

Sample ID: S - 4 9' (H230051-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/06/2023	ND	400	100	400	3.92	

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Analytical Results For:

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

Received: 01/05/2023
 Reported: 01/10/2023
 Project Name: MORRIS ARCO
 Project Number: EDDY COUNTY
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 6' (H230051-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	01/05/2023	ND	400	100	400	7.69		

Sample ID: S - 6 7' (H230051-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/06/2023	ND	416	104	400	3.77	

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: PARSON ENVIRONMENTAL		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Cason Spurlock		Company: SPUR					
Address: 5002 Carriage Rd		Attn: Brady Wolder					
City: Hobbs		Address:					
Phone #: 575-631-6977		City:					
State: NM Zip: 88242		State:					
Fax #: 575-631-6977		Phone #:					
Project #:		Fax #:					
Project Name: Morris Ave		Zip:					
Project Location: Eddy County							
Sample Name: SPUR							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	
HA3D051	SW-1			GROUNDWATER			Chlorides
1	SW-1			WASTEWATER			Hold
2	SW-1			SOIL			
3	SW-1			OIL			
4	SW-1			SLUDGE			
5	SW-1			OTHER			
6	SW-1			ACID/BASE			
7	SW-1			ICE / COOL			
8	SW-1			OTHER			
9	SW-1						
10	SW-1						
	DATE	TIME					
	12/1/14						

1-5-23
12/1/14

1-5-23
12/1/14

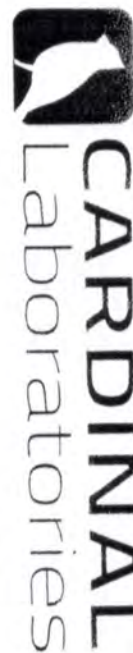
1-5-23
12/1/14

1-5-23
12/1/14

1-5-23
12/1/14

1-5-23
12/1/14

1-5-23
12/1/14



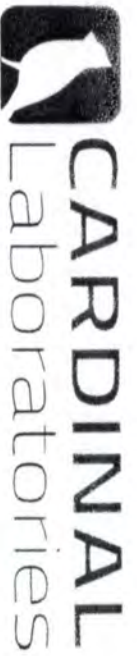
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental
Project Manager: Cason Spurlock
Address: 5002 Carriage Rd
City: Hobbs
State: NM Zip: 88242
Phone #: 575-631-6977
Fax #:
Project Owner: Spur
Project Name: Morris Alvo
Project Location: Eddy County
Sample Name:
FOR LAB USE ONLY

Lab I.D. #330051
Sample I.D.
Matrix: (GIRAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER
DATE 12/14
TIME
Chlorides Hold
Cl added 1/5/22
Cl added 1/6/22
Cl added 1/6/22
Cl added 1/6/22

RELINQUISHED BY:
DELIVERED BY:
SAMPLER - UPS - BUS - OTHER:
CHECKED BY:
REMARKS:
FAX REQUEST:
ADDITIONAL REMARKS:
FAX REQUEST:
ADDITIONAL REMARKS:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental Project Manager: Cason Spurlock Address: 5002 Carriage Rd City: Hobbs Phone #: 575-631-6977 State: NM zip: 88242 Project #: Project Name: Morris Area Project Location: Eddy County Sample Name: Jetway				P.O. #: Company: Spur Attn: Brady Webster Address: City: State: Zip:			
FOR LAB USE ONLY				BILL TO			
Lab I.D. H230051				Sample I.D. 31 32 33 34 35 36 37 38 39			
Matrix (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER				Preserv ACID/BASE ICE / COOL OTHER			
SAMPLING DATE 12/16				TIME 12:16			
Chlorides Hold				Cl added 1/5/22 Cl added 1/6/22 Cl added 1/6/22			
11/11/22 11/11/22 11/11/22 11/11/22 11/11/22 11/11/22 11/11/22 11/11/22				X X X X X X X X			

PLEASE NOTE: Laboratory and Customer Laboratory and results excluded from this chain of custody and analysis. All dates including those for re-testing and any other results shall be included in this chain of custody and analysis.

Relinquished By: *R. W. L.*

Delivered By: (Circle One)

Date: 1-5-23
Time: 12:16

Received By: *Brady Webster*

Date: 1-5-23
Time: 12:16

Received By: *Brady Webster*

Email results to Chris Jones.

Once you get a clean sample stop testing that sample point.

\$600 ppm 1/5/23

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

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

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

QUESTIONS

Action 379100

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	379100
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2130550702
Incident Name	NAPP2130550702 MORRIS ARCO 26 #002 @ 30-015-29258
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-29258] MORRIS ARCO 26 #002

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MORRIS ARCO 26 #002
Date Release Discovered	08/26/2021
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Valve Produced Water Released: 40 BBL Recovered: 35 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

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District III

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District IV

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 379100

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	379100
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 08/29/2024
--	--

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District III

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 379100

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	379100
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 300 and 500 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	5920
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	24.6
GRO+DRO	(EPA SW-846 Method 8015M)	24.6
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	10/01/2024
On what date will (or did) the final sampling or liner inspection occur	10/15/2024
On what date will (or was) the remediation complete(d)	10/31/2024
What is the estimated surface area (in square feet) that will be reclaimed	17000
What is the estimated volume (in cubic yards) that will be reclaimed	4300
What is the estimated surface area (in square feet) that will be remediated	17000
What is the estimated volume (in cubic yards) that will be remediated	4300

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

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

District I

1625 N. French Dr., Hobbs, NM 88240
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District II

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District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

QUESTIONS, Page 4

Action 379100

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	379100
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 08/29/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 379100

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 379100
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 379100

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 379100
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 379100

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 379100
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	The area around S8 must be remediated and sampled pursuant to 19.15.29.12 NMAC. Please be sure to submit sampling notification pursuant to 19.15.29.12.D.(1).(a). NMAC.	8/30/2024