



April 11, 2024

NMOCD District 2
 Mike Bratcher
 Artesia, NM 88210

Bureau of Land Management
 Crisha Morgan
 Carlsbad Field Office

**Re: Site Assessment, Remediation, and Closure Request
 Halberd Booster Pump
 API No. N/A
 GPS: Latitude 32.8167 Longitude -104.1534
 UL "L", Sec. 23, T17S, R28E
 Eddy County, NM
 NMOCD Ref. No. nAPP2336154693**

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

Release Details			
Type of Release:	Produced Water	Volume of Release:	48 bbls
		Volume Recovered:	46 bbls
Source of Release:	Booster Pump	Date of Release:	12/27/23
Was Immediate Notice Given?	No	If, Yes, to Whom?	NOR Submission to NMOCD Portal
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	State	Mineral Owner:	State
Corrosion of a valve on the transfer pump discharge line caused a produced water release into lined containment and onto location pad.			

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

REGULATORY FRAMEWORK

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

A search of the groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average groundwater depth within a (1) mile radius of the Release Site and identify any registered water wells within ½ Miles of the Release Site. The data initially found on the State Engineers website showed no water data within a ½ mile radius. With this being the case, we cleaned it up to the most stringent criteria.

Depth to groundwater information is provided in Appendix A.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- and is made up of Older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of High Plains region (middle to lower Pleistocene)—Includes scattered lacustrine, playa, and alluvial deposits of the Tahoka, Double Tanks, Tule, Blackwater Draw, and Gatuña Formations, the latter of which may be Pliocene at base; outcrops, however, are basically of Quaternary deposits (QOA). According to the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Largo-Stony Land Complex, with 0 to 25 percent slopes. The drainage courses in this area are well-drained. There is no high potential for karst geology around the Halberd (Figure #3).

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

TABLE I CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE			
	Constituent	Method	Limit
<50 Feet	Chloride	EPA 300.0	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

INITIAL SITE ASSESSMENT

On January 29th, 2024, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples in the area where the spill had come out of the booster and ran down to the nearest low spot south of the containment. Eight (8) soil samples were collected in this area in an effort to determine the vertical and horizontal extent of soil impact. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

1-29-24 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 1/29/24		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria 100 mg/kg	Closure Criteria 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	0-6"	ND	ND	ND	13.5	ND	13.5	6400
	3'	ND	ND	ND	ND	ND	ND	176
S-2	0-6"	ND	ND	ND	ND	ND	ND	16200
	3'	ND	ND	ND	ND	ND	ND	640
S-3	0-6"	ND	ND	ND	ND	ND	ND	8400
	2'	ND	ND	ND	ND	ND	ND	336
S-4	0-6"	ND	ND	ND	11.3	ND	11.3	18000
	5'	ND	ND	ND	ND	ND	ND	160
S-5	0-6"	ND	ND	ND	ND	ND	ND	2840
S-6	0-6"	ND	ND	ND	ND	ND	ND	3120
	2'	ND	ND	ND	ND	ND	ND	80
Z 2.1	SURFACE	ND	ND	ND	ND	ND	ND	272
Z 2.2	SURFACE	ND	ND	ND	ND	ND	ND	112

(ND) - Analyte Not Detected

A Site Map & Confirmation Sample Map are provided in Figures #1 and #5. Laboratory Results are provided in Appendix D.

REMEDATION ACTIVITIES

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

Our remediation began by utilizing a hydrovac to expose the underground lines. Once the buried lines were exposed, we proceeded with mechanical excavations as follows:

- In the areas of S-1 and S-2, excavation extended to 3’ BGS. An approximate total of 156 C/Y were removed.
- In the areas of S-3 and S-6, excavation extended to 2’ BGS. An app. total of 57 C/Y were removed.
- In the areas of S-4 and S-5, excavation extended to 5’ BGS. An app. total of 206 C/Y were removed

An email notification was sent to the NMOCD prior to obtaining confirmation samples. The results of this sampling event are in the following data table.

3-26-24 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 3-26-24	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria ≤ 100 mg/kg			Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
ESW - 1 3'	ND	ND	ND	ND	ND	0	32
ESW - 2 2'	ND	ND	ND	ND	ND	0	384
ESW - 3 5'	ND	ND	ND	ND	ND	0	560
ESW - 4 2'	ND	ND	ND	ND	ND	0	256
NSW - 1 3'	ND	ND	ND	ND	ND	0	528
NSW - 2 5'	ND	ND	ND	ND	ND	0	64
S - 1 3'	ND	ND	ND	ND	ND	0	160
S - 10 5'	ND	ND	ND	ND	ND	0	80
S - 11 5'	ND	ND	ND	ND	ND	0	32
S - 12 5'	ND	ND	ND	ND	ND	0	160
S - 13 5'	ND	ND	ND	ND	ND	0	208
S - 14 5'	ND	ND	ND	ND	ND	0	96
S - 15 2'	ND	ND	ND	ND	ND	0	224
S - 16 2'	ND	ND	ND	ND	ND	0	624
S - 2 3'	ND	ND	ND	ND	ND	0	288
S - 3 3'	ND	ND	ND	ND	ND	0	32
S - 4 3'	ND	ND	ND	ND	ND	0	48
S - 5 3'	ND	ND	ND	ND	ND	0	16
S - 6 3'	ND	ND	ND	ND	ND	0	32
S - 7 3'	ND	ND	ND	ND	ND	0	3440
S - 8 2'	ND	ND	ND	ND	ND	0	112
S - 9 2'	ND	ND	ND	ND	ND	0	160
SSW - 1 3'	ND	ND	ND	ND	ND	0	80
SSW - 2 5'	ND	ND	ND	ND	ND	0	288
SSW - 3 2'	ND	ND	ND	ND	ND	0	544
WSW - 1 3'	ND	ND	ND	ND	ND	0	96
WSW - 2 2'	ND	ND	ND	ND	ND	0	1960
WSW - 3 5'	ND	ND	ND	ND	ND	0	1920
WSW - 4 2'	ND	ND	ND	ND	ND	0	32

(ND) Analyte Not Detected

Upon receiving these sample results, an additional 6 inches was removed from the bottom of S-7 3' and from S-16 2'. An additional 6 inches was removed from the sidewalls of WSW-2 2' and WSW-3 5'. This amounted to an additional combined 6 C/Y that was removed. The results of this event are in the following data table.

4-2-24 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 4-2-24	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria ≤ 100 mg/kg			Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S - 16 2'	ND	ND	ND	ND	ND	0	176
S - 7 3'	ND	ND	ND	ND	ND	0	384
WSW - 2 2'	ND	ND	ND	ND	ND	0	416
WSW - 3 5'	ND	ND	ND	ND	ND	0	80

(ND) Analyte Not Detected

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

CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2336154693, be closed. Spur has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

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

Respectfully,



Tristan Jones
Project Coordinator
Paragon Environmental, LLC



Chris Jones
Environmental Professional
Paragon Environmental, LLC



Attachments

Figures:

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

Appendices:

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



Figures:

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

Spur Energy Partners

Halberd Booster Pump
Eddy County, NM
Site Map

Legend

-  Booster Pump
-  Samples
-  Spill Area 3290 S/F

Halberd Booster Pump 32.81670,-104.15340

HZ-1

S-1

S-2

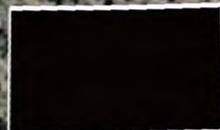
S-3

S-4

S-5

S-6

HZ-2



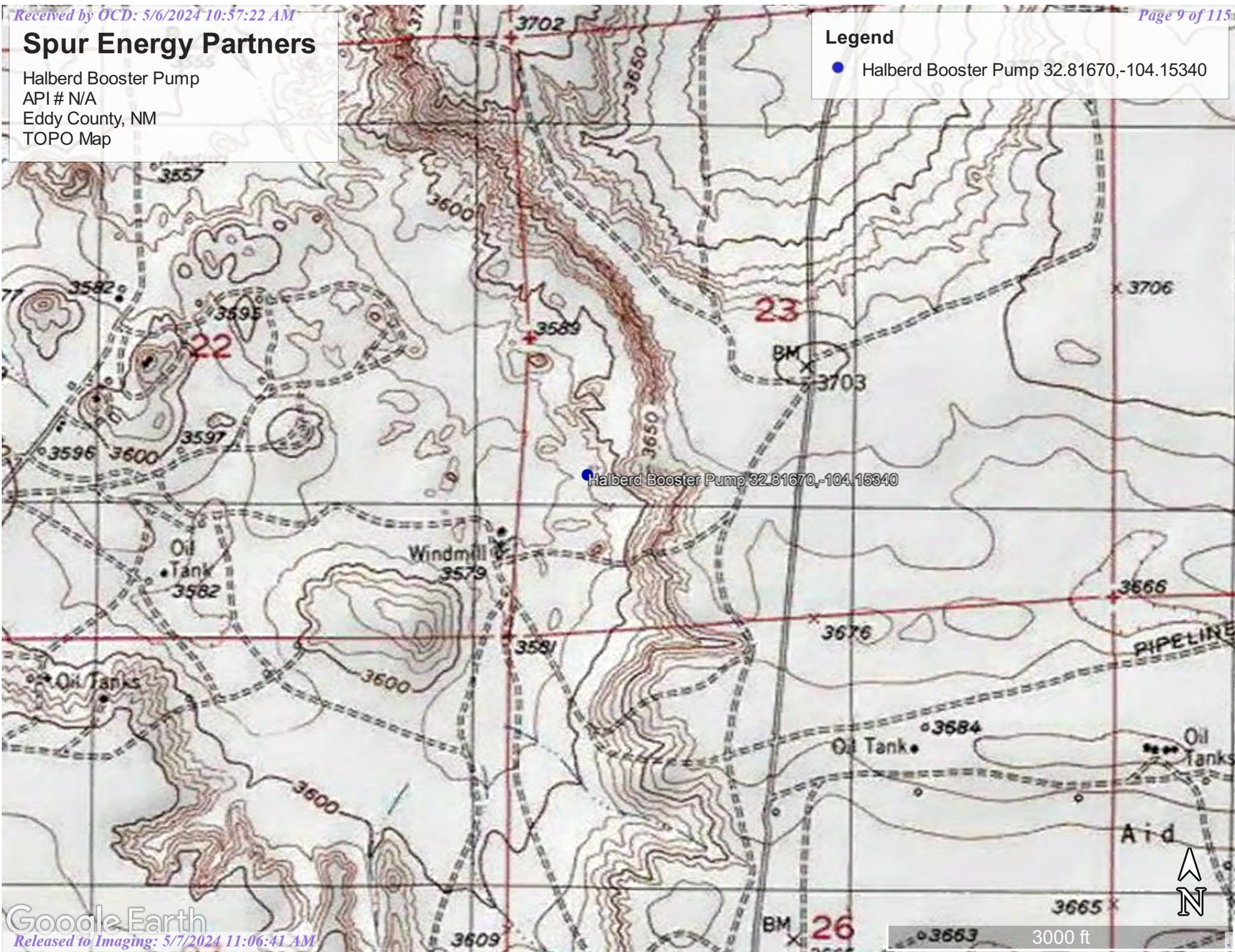
100 ft

Spur Energy Partners

Halberd Booster Pump
API # N/A
Eddy County, NM
TOPO Map

Legend

- Halberd Booster Pump 32.81670,-104.15340

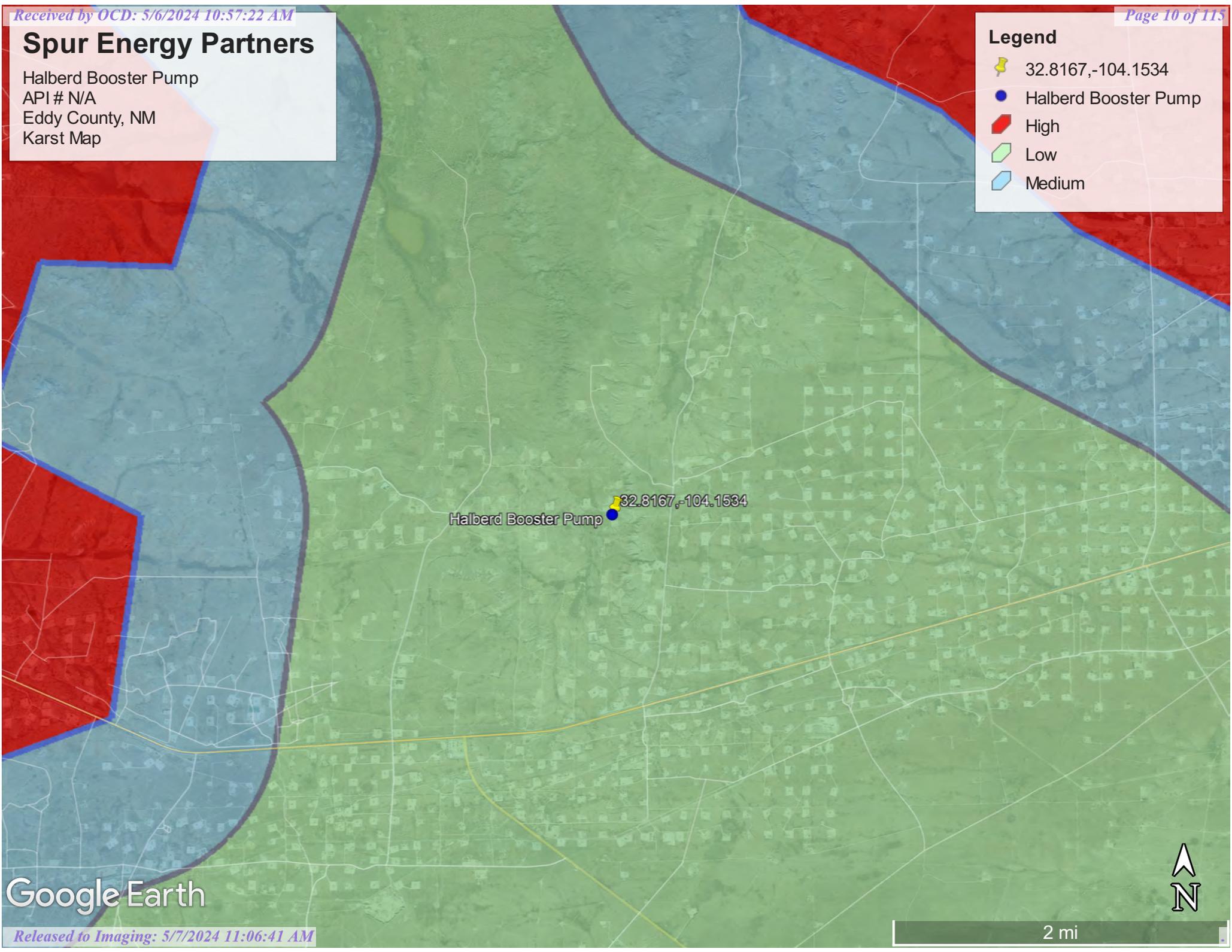


Spur Energy Partners

Halberd Booster Pump
API # N/A
Eddy County, NM
Karst Map

Legend

-  32.8167,-104.1534
-  Halberd Booster Pump
-  High
-  Low
-  Medium



Google Earth

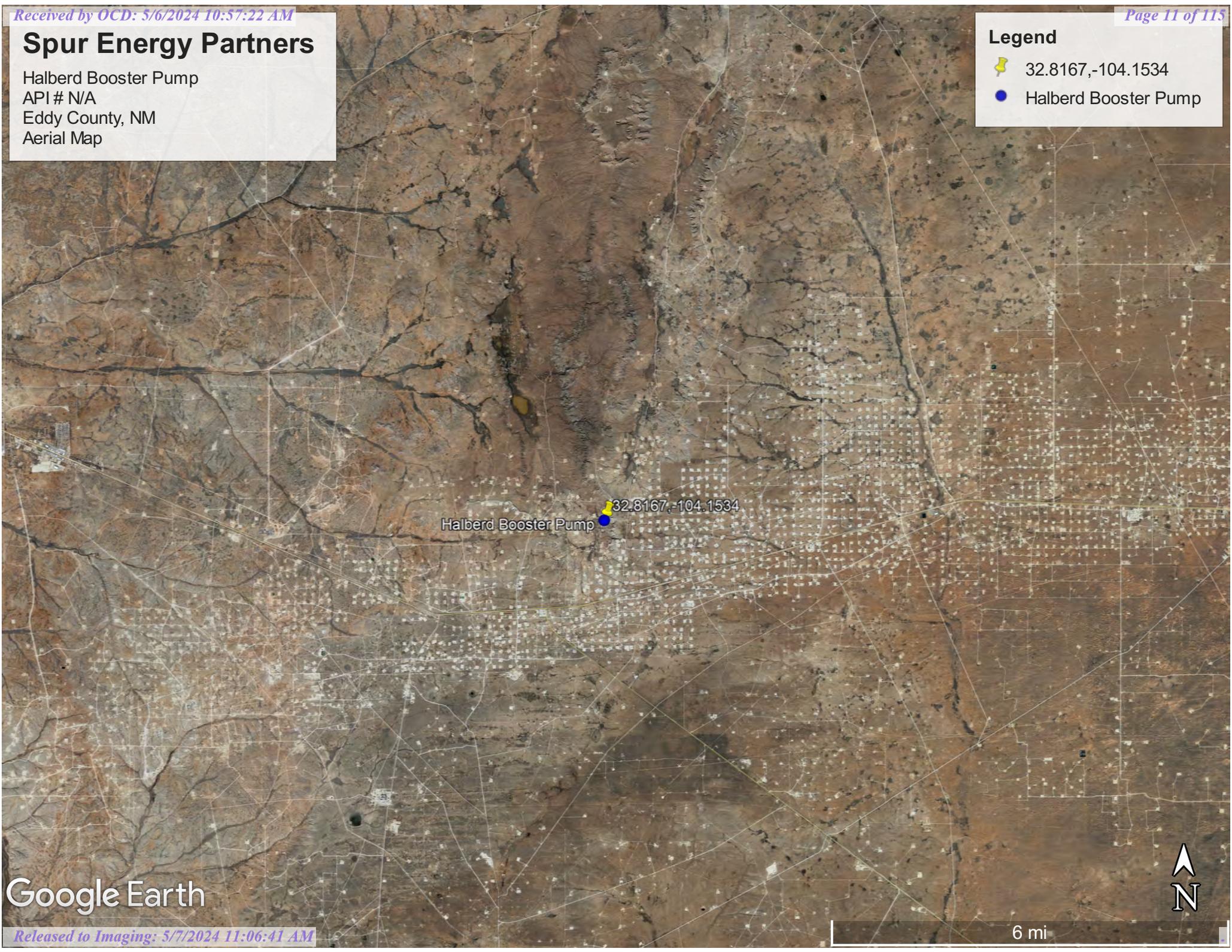


Spur Energy Partners

Halberd Booster Pump
API # N/A
Eddy County, NM
Aerial Map

Legend

-  32.8167,-104.1534
-  Halberd Booster Pump



Google Earth

6 mi



Spur Energy Partners

Halberd Booster Pump
API # N/A
Eddy County, NM
Confirmation Sample Map

Legend

-  2' Excavation 775 S/F- 57 C/Y
-  3' Excavation 1400 S/F- 156 C/Y
-  5' Excavation 1115 S/F- 206 C/Y
-  Samples
-  Halberd Booster Pump 32.81670,-104.15340
-  Spill Area 3290 S/F



Halberd Booster Pump 32.81670,-104.15340





Appendix A
Referenced Water Data:

New Mexico State of Engineers Office



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

POD Number	Code	POD Sub-basin	County	Q 6	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 12307 POD1		RA	ED	4	2	2	14	17S	28E	580495	3633981	2970	140	58	82

Average Depth to Water: **58 feet**
Minimum Depth: **58 feet**
Maximum Depth: **58 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 579251.172 **Northing (Y):** 3631283.197 **Radius:** 3200

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.

1/9/23 10:47 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Largo-Stony land complex, 0 to 25 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

LN—Largo-Stony land complex, 0 to 25 percent slopes

Map Unit Setting

National map unit symbol: 1w50

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Largo and similar soils: 41 percent

Stony land: 40 percent

Minor components: 19 percent

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

Description of Largo

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Calcareous alluvium

Typical profile

H1 - 0 to 4 inches: loam

H2 - 4 to 47 inches: silt loam

H3 - 47 to 65 inches: loam

Properties and qualities

Slope: 1 to 5 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 (0.20 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: 15 percent

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

Available water supply, 0 to 60 inches: High (about 10.0 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Map Unit Description: Largo-Stony land complex, 0 to 25 percent slopes---Eddy Area, New Mexico

Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 7 percent
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Pajarito

Percent of map unit: 6 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Largo

Percent of map unit: 6 percent
Ecological site: R070BC017NM - Bottomland
Hydric soil rating: No

Data Source Information

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

National Flood Hazard Layer FIRMette



104°9'31"W 32°49'15"N



Legend

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

- | | | |
|------------------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard <i>Zone D</i> |
| | | Channel, Culvert, or Storm Sewer |
| OTHER FEATURES | | Levee, Dike, or Floodwall |
| | | 20.2 Cross Sections with 1% Annual Chance |
| | | 17.5 Water Surface Elevation |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| MAP PANELS | | Coastal Transect Baseline |
| | | Profile Baseline |
| | | Hydrographic Feature |
| MAP PANELS | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/9/2023 at 12:49 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Appendix C:

Notification

Photographic Documentation



Angel Pena <angel@paragonenvironmental.net>

The Oil Conservation Division (OCD) has accepted the application, Application ID: 325874

<OCDOnline@state.nm.us>

Fri, Mar 22 at 10:27 AM

To: <angel@paragonenvironmental.net>

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2336154693.

The sampling event is expected to take place:

When: 03/26/2024 @ 10:30

Where: L-23-17S-28E 0 FNL 0 FEL (32.8168,-104.15357)

Additional Information: Jeremy Maner
575-602-4231

Additional Instructions: 32.81680,-104.15357

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

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

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

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



Photographic Documentation

Before



During



After





Appendix D:
Laboratory Results



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

February 02, 2024

TRISTAN JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: HALBERD BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 01/29/24 16:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 1 0-6" (H240405-01)

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	01/31/2024	ND	2.18	109	2.00	0.228	
Toluene*	<0.050	0.050	01/31/2024	ND	2.35	117	2.00	2.18	
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.45	123	2.00	1.27	
Total Xylenes*	<0.150	0.150	01/31/2024	ND	7.44	124	6.00	0.921	
Total BTEX	<0.300	0.300	01/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	13.5	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

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



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

Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 1 3' (H240405-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2024	ND	2.18	109	2.00	0.228	
Toluene*	<0.050	0.050	01/31/2024	ND	2.35	117	2.00	2.18	
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.45	123	2.00	1.27	
Total Xylenes*	<0.150	0.150	01/31/2024	ND	7.44	124	6.00	0.921	
Total BTEX	<0.300	0.300	01/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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



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

Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 2 0-6" (H240405-03)

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	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16200	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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



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

Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 2 3' (H240405-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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



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Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 3 0-6" (H240405-05)

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	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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



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Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 3 2' (H240405-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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



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Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 4 0-6" (H240405-07)

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	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	11.3	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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



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

Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 4 5' (H240405-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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



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Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 5 0-6" (H240405-09)

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	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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



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Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 5 6' (H240405-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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



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

Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 6 0-6" (H240405-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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



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

Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: S - 6 2' (H240405-12)

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	02/01/2024	ND	2.32	116	2.00	1.56		
Toluene*	<0.050	0.050	02/01/2024	ND	2.38	119	2.00	3.93		
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.49	125	2.00	8.15		
Total Xylenes*	<0.150	0.150	02/01/2024	ND	7.42	124	6.00	8.68		
Total BTEX	<0.300	0.300	02/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58		
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57		
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND						

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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



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

Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: Z 2.1 (H240405-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.01	100	2.00	11.3	
Toluene*	<0.050	0.050	01/30/2024	ND	2.06	103	2.00	13.4	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.17	109	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.59	110	6.00	13.9	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/30/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2024	ND	209	105	200	2.25	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	203	102	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 49.1-148

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



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

Analytical Results For:

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

Sample ID: Z 2.2 (H240405-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.01	100	2.00	11.3	
Toluene*	<0.050	0.050	01/30/2024	ND	2.06	103	2.00	13.4	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.17	109	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.59	110	6.00	13.9	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/30/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2024	ND	209	105	200	2.25	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	203	102	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.1 % 49.1-148

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



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

Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Handwritten signature of Mike Snyder

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental
 Project Manager: Cason Spurlock
 Address: 5002 Carriage Rd
 City: Hobbs State: NM zip: 88242
 Phone #: 575-631-6977 Fax #: _____
 Project #: _____ Project Owner: Spur
 Project Name: Halvard Booster Pumps
 Project Location: Eddy County
 Sampler Name: Sevinny Mares
 FOR LAB USE ONLY

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

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH Ext.	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
4240465	S.1 0.6	G	1							01/25				
1	S.1 0.6													
2	S.1 3													
3	S.2 0.6													
4	S.2 3													
5	S.3 0.6													
6	S.3 7													
7	S.4 0.6													
8	S.4 5													
9	S.5 0.6													
10	S.5 6													

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Relinquished By: K. Z. Mares
 Date: 01/24
 Received By: [Signature]
 Date: 1/25

Delivered By: (Circle One) H140 Sample Condition: Cool Intact
 Sampler - UPS - Bus - Other: K. S. C. Yes No

CHECKED BY: [Signature] (Initials)

REMARKS: Email results to Chris Jones

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

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



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: NIM **Zip:** 88242
Phone #: 575-631-6977
Fax #:
Project #:
Project Owner: Spur
Project Name: Highway Booster Pump
Project Location: Eddy
Sampler Name: Steven W. Jones
FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	ANALYSIS REQUEST	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:						TPH Ext.	BTEX
H240405	11 S.L. 0.5	G	1									01/29			X	X
	12 S.L. 2														X	X

DELIVERED BY: (Circle One)
 Sampler - UPS - Bus - Other: 4.5°C
 Sample Condition: Cool Intact
 Yes No
 Yes No

DELINQUISHED BY: HR. W. S.
DELINQUISHED BY: HR. W. S.
DELINQUISHED BY: HR. W. S.

RECEIVED BY: Steven W. Jones
RECEIVED BY: Steven W. Jones
RECEIVED BY: Steven W. Jones

CHECKED BY: HR. W. S.
CHECKED BY: HR. W. S.
CHECKED BY: HR. W. S.

REMARKS:
 Email results to Chris Jones



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

February 21, 2024

TRISTAN JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: HALBERD BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 01/29/24 16:55.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1 0-6"	H240405-01	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 1 3'	H240405-02	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 2 0-6"	H240405-03	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 2 3'	H240405-04	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 3 0-6"	H240405-05	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 3 2'	H240405-06	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 4 0-6"	H240405-07	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 4 5'	H240405-08	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 5 0-6"	H240405-09	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 6 0-6"	H240405-11	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 6 2'	H240405-12	Soil	29-Jan-24 00:00	29-Jan-24 16:55
Z 2.1	H240405-13	Soil	29-Jan-24 00:00	29-Jan-24 16:55
Z 2.2	H240405-14	Soil	29-Jan-24 00:00	29-Jan-24 16:55

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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S - 1 0-6''
H240405-01 (Soil)

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

Inorganic Compounds

Chloride	6400		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013013	JH	31-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		71.5-134	4013013	JH	31-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	13.5		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

Surrogate: 1-Chlorooctane			86.5 %		48.2-134	4013005	ms	30-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			85.8 %		49.1-148	4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
---	---	------------------------------

S - 1 3'

H240405-02 (Soil)

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

Inorganic Compounds

Chloride	176		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013013	JH	31-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		4013013	JH	31-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

Surrogate: 1-Chlorooctane			68.3 %	48.2-134		4013005	ms	30-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			68.0 %	49.1-148		4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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S - 2 0-6"

H240405-03 (Soil)

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

Inorganic Compounds

Chloride	16200		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.4 %		71.5-134	4013014	JH	30-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.8 %		48.2-134	4013005	ms	30-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.6 %		49.1-148	4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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S - 2 3'

H240405-04 (Soil)

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

Inorganic Compounds

Chloride	640		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4013014	JH	30-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

Surrogate: 1-Chlorooctane			86.1 %	48.2-134		4013005	ms	30-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			85.3 %	49.1-148		4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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S - 3 0-6"

H240405-05 (Soil)

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

Inorganic Compounds

Chloride	8400		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	71.5-134		4013014	JH	30-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.5 %	48.2-134		4013005	ms	30-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.1 %	49.1-148		4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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S - 3 2'

H240405-06 (Soil)

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

Inorganic Compounds

Chloride	336		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.5 %		71.5-134	4013014	JH	30-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.0 %		48.2-134	4013005	ms	30-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			73.7 %		49.1-148	4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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S - 4 0-6"

H240405-07 (Soil)

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

Inorganic Compounds

Chloride	18000		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		4013014	JH	30-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	11.3		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.6 %	48.2-134		4013005	ms	30-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.7 %	49.1-148		4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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S - 4 5'

H240405-08 (Soil)

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

Inorganic Compounds

Chloride	160		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4013014	JH	30-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

Surrogate: 1-Chlorooctane			95.4 %	48.2-134		4013005	ms	30-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			96.5 %	49.1-148		4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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S - 5 0-6"
H240405-09 (Soil)

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

Inorganic Compounds

Chloride	2840		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4013014	JH	30-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.8 %	48.2-134		4013005	ms	30-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.4 %	49.1-148		4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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S - 6 0-6"

H240405-11 (Soil)

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

Inorganic Compounds

Chloride	3120		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.3 %	71.5-134		4013014	JH	30-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.9 %	48.2-134		4013005	ms	30-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.3 %	49.1-148		4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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H240405-12 (Soil)

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

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	01-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	01-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	01-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	01-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	01-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.6 %	71.5-134		4013014	JH	01-Feb-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.9 %	48.2-134		4013005	ms	30-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.1 %	49.1-148		4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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Z 2.1

H240405-13 (Soil)

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

Inorganic Compounds

Chloride	272		16.0	mg/kg	4	4013028	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013009	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4013009	JH	30-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	

Surrogate: 1-Chlorooctane			84.3 %	48.2-134		4013019	MS	31-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			73.0 %	49.1-148		4013019	MS	31-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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Z 2.2

H240405-14 (Soil)

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

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	4013028	CT	30-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013009	JH	30-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4013009	JH	30-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.3 %	48.2-134		4013019	MS	31-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			66.1 %	49.1-148		4013019	MS	31-Jan-24	8015B	
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Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4013026 - 1:4 DI Water

Blank (4013026-BLK1)											Prepared & Analyzed: 30-Jan-24
Chloride	ND	16.0	mg/kg								
LCS (4013026-BS1)											Prepared & Analyzed: 30-Jan-24
Chloride	416	16.0	mg/kg	400		104	80-120				
LCS Dup (4013026-BSD1)											Prepared & Analyzed: 30-Jan-24
Chloride	448	16.0	mg/kg	400		112	80-120	7.41	20		

Batch 4013028 - 1:4 DI Water

Blank (4013028-BLK1)											Prepared & Analyzed: 30-Jan-24
Chloride	ND	16.0	mg/kg								
LCS (4013028-BS1)											Prepared & Analyzed: 30-Jan-24
Chloride	432	16.0	mg/kg	400		108	80-120				
LCS Dup (4013028-BSD1)											Prepared & Analyzed: 30-Jan-24
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20		

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Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4013009 - Volatiles

Blank (4013009-BLK1)

Prepared & Analyzed: 30-Jan-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0545		mg/kg	0.0500		109	71.5-134			

LCS (4013009-BS1)

Prepared & Analyzed: 30-Jan-24

Benzene	2.01	0.050	mg/kg	2.00		100	82.8-130			
Toluene	2.06	0.050	mg/kg	2.00		103	86-128			
Ethylbenzene	2.17	0.050	mg/kg	2.00		109	85.9-128			
m,p-Xylene	4.36	0.100	mg/kg	4.00		109	89-129			
o-Xylene	2.22	0.050	mg/kg	2.00		111	86.1-125			
Total Xylenes	6.59	0.150	mg/kg	6.00		110	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0561		mg/kg	0.0500		112	71.5-134			

LCS Dup (4013009-BSD1)

Prepared & Analyzed: 30-Jan-24

Benzene	2.25	0.050	mg/kg	2.00		112	82.8-130	11.3	15.8	
Toluene	2.36	0.050	mg/kg	2.00		118	86-128	13.4	15.9	
Ethylbenzene	2.49	0.050	mg/kg	2.00		125	85.9-128	13.7	16	
m,p-Xylene	5.02	0.100	mg/kg	4.00		126	89-129	14.0	16.2	
o-Xylene	2.55	0.050	mg/kg	2.00		127	86.1-125	13.5	16.7	BS-3
Total Xylenes	7.57	0.150	mg/kg	6.00		126	88.2-128	13.9	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0567		mg/kg	0.0500		113	71.5-134			

Batch 4013013 - Volatiles

Blank (4013013-BLK1)

Prepared: 30-Jan-24 Analyzed: 31-Jan-24

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4013013 - Volatiles

Blank (4013013-BLK1) Prepared: 30-Jan-24 Analyzed: 31-Jan-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.5	71.5-134			

LCS (4013013-BS1) Prepared & Analyzed: 30-Jan-24

Benzene	2.18	0.050	mg/kg	2.00		109	82.8-130			
Toluene	2.35	0.050	mg/kg	2.00		117	86-128			
Ethylbenzene	2.45	0.050	mg/kg	2.00		123	85.9-128			
m,p-Xylene	4.94	0.100	mg/kg	4.00		124	89-129			
o-Xylene	2.50	0.050	mg/kg	2.00		125	86.1-125			
Total Xylenes	7.44	0.150	mg/kg	6.00		124	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0569		mg/kg	0.0500		114	71.5-134			

LCS Dup (4013013-BSD1) Prepared & Analyzed: 30-Jan-24

Benzene	2.18	0.050	mg/kg	2.00		109	82.8-130	0.228	15.8	
Toluene	2.30	0.050	mg/kg	2.00		115	86-128	2.18	15.9	
Ethylbenzene	2.42	0.050	mg/kg	2.00		121	85.9-128	1.27	16	
m,p-Xylene	4.90	0.100	mg/kg	4.00		123	89-129	0.795	16.2	
o-Xylene	2.47	0.050	mg/kg	2.00		123	86.1-125	1.17	16.7	
Total Xylenes	7.37	0.150	mg/kg	6.00		123	88.2-128	0.921	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0567		mg/kg	0.0500		113	71.5-134			

Batch 4013014 - Volatiles

Blank (4013014-BLK1) Prepared & Analyzed: 30-Jan-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0561		mg/kg	0.0500		112	71.5-134			

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Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4013014 - Volatiles

LCS (4013014-BS1)

Prepared: 30-Jan-24 Analyzed: 31-Jan-24

Benzene	2.32	0.050	mg/kg	2.00		116	82.8-130			
Toluene	2.38	0.050	mg/kg	2.00		119	86-128			
Ethylbenzene	2.49	0.050	mg/kg	2.00		125	85.9-128			
m,p-Xylene	4.96	0.100	mg/kg	4.00		124	89-129			
o-Xylene	2.45	0.050	mg/kg	2.00		123	86.1-125			
Total Xylenes	7.42	0.150	mg/kg	6.00		124	88.2-128			

Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500		105	71.5-134			
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LCS Dup (4013014-BS1)

Prepared & Analyzed: 30-Jan-24

Benzene	2.36	0.050	mg/kg	2.00		118	82.8-130	1.56	15.8	
Toluene	2.29	0.050	mg/kg	2.00		114	86-128	3.93	15.9	
Ethylbenzene	2.30	0.050	mg/kg	2.00		115	85.9-128	8.15	16	
m,p-Xylene	4.53	0.100	mg/kg	4.00		113	89-129	9.15	16.2	
o-Xylene	2.27	0.050	mg/kg	2.00		113	86.1-125	7.74	16.7	
Total Xylenes	6.80	0.150	mg/kg	6.00		113	88.2-128	8.68	16.3	

Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.8	71.5-134			
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4013005 - General Prep - Organics

Blank (4013005-BLK1)		Prepared & Analyzed: 30-Jan-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.7	48.2-134			
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.7	49.1-148			

LCS (4013005-BS1)		Prepared & Analyzed: 30-Jan-24								
GRO C6-C10	194	10.0	mg/kg	200		97.2	66.4-123			
DRO >C10-C28	212	10.0	mg/kg	200		106	66.5-118			
Total TPH C6-C28	406	10.0	mg/kg	400		102	77.6-123			
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0		89.1	48.2-134			
Surrogate: 1-Chlorooctadecane	43.4		mg/kg	50.0		86.8	49.1-148			

LCS Dup (4013005-BSD1)		Prepared & Analyzed: 30-Jan-24								
GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123	4.58	17.7	
DRO >C10-C28	215	10.0	mg/kg	200		108	66.5-118	1.57	21	
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123	3.02	18.5	
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		94.1	48.2-134			
Surrogate: 1-Chlorooctadecane	46.0		mg/kg	50.0		92.0	49.1-148			

Batch 4013019 - General Prep - Organics

Blank (4013019-BLK1)		Prepared & Analyzed: 30-Jan-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.9		mg/kg	50.0		85.9	48.2-134			
Surrogate: 1-Chlorooctadecane	38.6		mg/kg	50.0		77.2	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL 1601 N TURNER ST., STE 500 HOBBS NM, 88240	Project: HALBERD BOOSTER PUMP Project Number: NOT GIVEN Project Manager: TRISTAN JONES Fax To:	Reported: 21-Feb-24 16:00
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4013019 - General Prep - Organics

LCS (4013019-BS1)		Prepared & Analyzed: 30-Jan-24								
GRO C6-C10	209	10.0	mg/kg	200		105	66.4-123			
DRO >C10-C28	203	10.0	mg/kg	200		102	66.5-118			
Total TPH C6-C28	412	10.0	mg/kg	400		103	77.6-123			
Surrogate: 1-Chlorooctane	42.3		mg/kg	50.0		84.7	48.2-134			
Surrogate: 1-Chlorooctadecane	40.8		mg/kg	50.0		81.6	49.1-148			
LCS Dup (4013019-BSD1)		Prepared & Analyzed: 30-Jan-24								
GRO C6-C10	214	10.0	mg/kg	200		107	66.4-123	2.25	17.7	
DRO >C10-C28	196	10.0	mg/kg	200		98.1	66.5-118	3.45	21	
Total TPH C6-C28	410	10.0	mg/kg	400		102	77.6-123	0.514	18.5	
Surrogate: 1-Chlorooctane	44.6		mg/kg	50.0		89.1	48.2-134			
Surrogate: 1-Chlorooctadecane	41.8		mg/kg	50.0		83.5	49.1-148			

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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Paragon Environmental

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs

Phone #: 575-631-6977

Project #:

Project Name: Halbard Booster Pump

Project Location: Faldy County

Sampler Name: Sevenson Matrix

P.O. #:

Company: Spur

Attn: Bradley Molder

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH Ext.	BTEX	Chlorides
4240465	1	S.1 O.L.	1				01/24				
	2	S.1 3									
	3	S.2 0.6									
	4	S.2 3									
	5	S.3 0.6									
	6	S.3 2									
	7	S.4 0.6									
	8	S.4 5									
	9	S.5 0.6									
	10	S.5 6									

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Relinquished By: *K.R. Mc*

Date: *01/24*

Time: *11:55*

Received By: *[Signature]*

Date: *01/24*

Time: *11:55*

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition: Cool Intact
 Yes No

CHECKED BY: *[Signature]*

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

Email results to Chris Jones

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



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

April 02, 2024

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

RE: HALBERD 27 BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 03/26/24 13:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 1 3' (H241568-01)

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	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 2 3' (H241568-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77		
Total BTEX	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	2.93		
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	223	112	200	2.70		
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND						

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 3 3' (H241568-03)

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	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 4 3' (H241568-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 5 3' (H241568-05)

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	03/27/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	2.93		
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	223	112	200	2.70		
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND						

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 6 3' (H241568-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 7 3' (H241568-07)

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	03/27/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	2.93		
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	223	112	200	2.70		
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND						

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 8 2' (H241568-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 9 2' (H241568-09)

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	03/27/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77		
Total BTEX	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457		
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85		
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND						

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 10 5' (H241568-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 11 5' (H241568-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 12 5' (H241568-12)

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	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 13 5' (H241568-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 14 5' (H241568-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 15 2' (H241568-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 16 2' (H241568-16)

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	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: NSW - 1 3' (H241568-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: NSW - 2 5' (H241568-18)

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	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: SSW - 1 3' (H241568-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEX	<0.300	0.300	03/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: SSW - 2 5' (H241568-20)

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	03/27/2024	ND	1.79	89.5	2.00	3.86	
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: SSW - 3 2' (H241568-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86	
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: ESW - 1 3' (H241568-22)

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	03/27/2024	ND	1.79	89.5	2.00	3.86	
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: ESW - 2 2' (H241568-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86	
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: ESW - 3 5' (H241568-24)

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	03/27/2024	ND	1.79	89.5	2.00	3.86	
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/28/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: ESW - 4 2' (H241568-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86	
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/28/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: WSW - 1 3' (H241568-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86	
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/28/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	201	100	200	1.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	195	97.5	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: WSW - 2 2' (H241568-27)

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	03/27/2024	ND	1.79	89.5	2.00	3.86	
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	03/28/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	201	100	200	1.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	195	97.5	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: WSW - 3 5' (H241568-28)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86		
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	03/28/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	201	100	200	1.99		
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	195	97.5	200	1.23		
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND						

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: WSW - 4 2' (H241568-29)

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	03/27/2024	ND	1.79	89.5	2.00	3.86	
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental		P.O. #:	
Project Manager: Cason Spurlock		Company: Spuv	
Address: 5002 Carriage Rd		Attn: Bradley Melzer	
City: Hobbs		Address:	
State: NM zip: 88242		City:	
Phone #: 575-631-6977		State:	
Fax #:		Zip:	
Project #: Project Owner: Spuv		Phone #:	
Project Name: Halvard 72 Booster Pump		Fax #:	
Project Location: Eddy		DATE	
Sampler Name: Jeremy Moore		TIME	
FOR LAB USE ONLY		DATE	
Lab I.D.		TIME	
Sample I.D.		DATE	
H041508		05/26	
S.I.		TPH Ext	
S.2		RTEX	
S.3		Chlorides	
S.4			
S.5			
S.6			
S.7			
S.8			
S.9			
S.10			

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Relinquished By: *J.R.M.S* Date: *03/26* Received By: *Spotkovsky*

Delivered By: (Circle One) *312* Sample Condition: Intact Cool Yes No Yes No CHECKED BY: *SPZ*

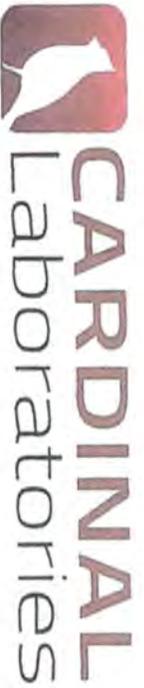
Sampler - UPS - Bus - Other: *#140*

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO ANALYSIS REQUEST

Company Name: Paragon Environmental		P.O. #:	
Project Manager: Cason Spurlock		Company: Spurlock	
Address: 5002 Carriage Rd		Attn: Randy Weller	
City: Hobbs		Address:	
State: NM zip: 88242		City:	
Phone #: 575-631-6977		State:	
Fax #: _____		Zip:	
Project #: _____		Project Owner: Spurlock	
Project Name: Halberd 17 Booster Pump		City:	
Project Location: Eddy		State:	
Sample Name: Seismic Monitor		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.			
H24508	S-11 5'	C	1								5/16		TPH Ext
11	S-12 5'												BTEX
13	S-13 5'												Chlorides
14	S-14 5'												
15	S-15 2'												
16	S-16 2'												
17	NSW-1 3'												
18	NSW-2 5'												
19	SSW-1 3'												
20	SSW-2 5'												

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental
Project Manager: Cason Spurlock
P.O. #:

Address: 5002 Carriage Rd
City: Hobbs
State: NM zip: 88242
Company: Spur
Attn: Bradley Wolden

Phone #: 575-631-6977
Fax #:
Address:

Project #:
Project Name: Halberd 73 Booster Pump
City:
State: Zip:

Project Location: Eddy
Project Owner: Spur
Phone #:

Sampler Name: Jeremy Warner
Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH Ext	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H4508	SW-3 2'	G	1						05/10					
21	ESW-1 3'													
22	ESW-2 7'													
23	ESW-3 5'													
24	ESW-4 7'													
25	WSW-1 3'													
26	WSW-2 7'													
27	WSW-3 5'													
28	WSW-4 7'													
29														

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Relinquished By: [Signature]
Date: 05/10
Received By: [Signature]
Date: 05/10

Delivered By: (Circle One) 3.1c
Sampler - UPS - Bus - Other: #140
Sample Condition: Cool Intact Yes
Checked By: [Signature]

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



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

April 09, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: HALBERD 27 BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 04/03/24 9:36.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/03/2024	Sampling Date:	04/02/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 7 3' (H241717-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2024	ND	2.17	109	2.00	2.04	
Toluene*	<0.050	0.050	04/04/2024	ND	2.12	106	2.00	1.85	
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.04	102	2.00	1.97	
Total Xylenes*	<0.150	0.150	04/04/2024	ND	5.89	98.2	6.00	2.06	
Total BTEX	<0.300	0.300	04/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/05/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	222	111	200	7.23	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	206	103	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/03/2024	Sampling Date:	04/02/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: S - 16 2' (H241717-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2024	ND	2.17	109	2.00	2.04	
Toluene*	<0.050	0.050	04/04/2024	ND	2.12	106	2.00	1.85	
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.04	102	2.00	1.97	
Total Xylenes*	<0.150	0.150	04/04/2024	ND	5.89	98.2	6.00	2.06	
Total BTEX	<0.300	0.300	04/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/05/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	222	111	200	7.23	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	206	103	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/03/2024	Sampling Date:	04/02/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: WSW - 2 2' (H241717-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2024	ND	2.17	109	2.00	2.04	
Toluene*	<0.050	0.050	04/04/2024	ND	2.12	106	2.00	1.85	
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.04	102	2.00	1.97	
Total Xylenes*	<0.150	0.150	04/04/2024	ND	5.89	98.2	6.00	2.06	
Total BTEX	<0.300	0.300	04/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/05/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	222	111	200	7.23	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	206	103	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/03/2024	Sampling Date:	04/02/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

Sample ID: WSW - 3 5' (H241717-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2024	ND	1.99	99.7	2.00	0.0601	
Toluene*	<0.050	0.050	04/04/2024	ND	2.08	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.12	106	2.00	1.35	
Total Xylenes*	<0.150	0.150	04/04/2024	ND	6.33	105	6.00	1.37	
Total BTEX	<0.300	0.300	04/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/05/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	222	111	200	7.23	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	206	103	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental
 Project Manager: Chris Jones
 Address: 1601 N. Turner St, Ste 500
 City: Hobbs State: NM Zip: 88240
 Phone #: 575-964-7814 Fax #:
 Project #: Project Owner: SPUR
 Project Name: Halberd 27 booster pump
 Project Location: Rural Edds
 Sampler Name: Jerran's Manor
 P.O. #: Company: SPUR
 Attn: Address: City: State: Zip: Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING DATE TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
HA41717	5-7 3		1								04/02		PH
	5-7 2		1								04/02		BTEX
	WSW-2 2		1										Chlorides
	WSW-3 5		1										

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Relinquished By: [Signature] Date: 04/03 Received By: [Signature] Date: 04/03
 Time: 0830

Delivered By: (Circle One) -10-0 i #140
 Sampler - UPS - Bus - Other: Sample Condition Cool Intact Yes No
 CHECKED BY: [Signature]

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

† 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 341104

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 341104
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2336154693
Incident Name	NAPP2336154693 HALBERD BOOSTER PUMP @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	HALBERD BOOSTER PUMP
Date Release Discovered	12/27/2023
Surface Owner	State

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: 48 BBL Recovered: 46 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	CORROSION OF A VALVE ON THE TRANSFER PUMP DISCHARGE LINE CAUSED A PRODUCED WATER RELEASE INTO LINED CONTAINMENT AND ONTO THE LOCATION PAD

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-9720
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, Page 2

Action 341104

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 341104
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 01/08/2024
--	--

District I
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QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 341104
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 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 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1/2 and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	18000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	13.5
GRO+DRO (EPA SW-846 Method 8015M)	13.5
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	03/18/2024
On what date will (or did) the final sampling or liner inspection occur	03/26/2024
On what date will (or was) the remediation complete(d)	04/03/2024
What is the estimated surface area (in square feet) that will be reclaimed	3290
What is the estimated volume (in cubic yards) that will be reclaimed	425
What is the estimated surface area (in square feet) that will be remediated	3290
What is the estimated volume (in cubic yards) that will be remediated	425

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

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

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QUESTIONS, Page 4

Action 341104

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 341104
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(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.

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 05/06/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 341104

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 341104
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 341104

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 341104
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	325874
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/26/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	3290

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3290
What was the total volume (cubic yards) remediated	425
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	3290
What was the total volume (in cubic yards) reclaimed	425
Summarize any additional remediation activities not included by answers (above)	SOIL CONTAMINATION WAS REMOVED TO MEET THE CLOSURE CRITERIA SET FORTH BY NMOCD

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 05/06/2024
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Action 341104

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 341104
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 341104

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 341104
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	Areas not reasonably needed for production or drilling activities will need to be reclaimed and revegetated as early as practicable. The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. Pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; a revegetation plan	5/7/2024
scwells	Remediation closure approved. Pursuant to 19.15.29.12D(1)a NMAC, the responsible party must submit sampling notification for all final sampling. A sampling notice was submitted for samples collected on 3/26/24 but not submitted for samples collected on 4/2/24. In future remediations, please submit notices for all samples collected for closure.	5/7/2024