Incident ID	NAPP2231932450
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following iten	ns must be included in the closure report.								
A scaled site and sampling diagram as described in 19.15.29.11 NMAC									
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office								
Laboratory analyses of final sampling (Note: appropriate ODC I	District office must be notified 2 days prior to final sampling)								
Description of remediation activities									
I hereby certify that the information given above is true and complete and regulations all operators are required to report and/or file certain r may endanger public health or the environment. The acceptance of a d should their operations have failed to adequately investigate and reme human health or the environment. In addition, OCD acceptance of a d compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the cond accordance with 19.15.29.13 NMAC including notification to the OCH Printed Name: Kathy Purvis. Signature: <u>Katherine Purvia</u> email: <u>katherine.purvis@spurenergy.com</u>	C-141 report by the OCD does not relieve the operator of liability diate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially itions that existed prior to the release or their final land use in								
OCD Only									
Received by: Jocelyn Harimon	Date: 04/24/2023								
	Tiability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.								
Closure Approved by: <u>Robert Hamlet</u>	Date: <u>9/11/2023</u>								
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced								



April 18th, 2023

NMOCD District 2 Mike Bratcher Artesia, NM 88210

Bureau of Land Management Crisha Morgan Carlsbad Field Office

Re: Site Assessment, Remediation, and Closure Report 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. nAPP2231932450

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

Release Details							
Type of Delegast	Produced Water	Volume of Release:	20 bbls				
Type of Release:	Produced Water	Volume Recovered:	1 bbls				
Source of Release:	Booster Pump	Date of Release:	11/11/22				
Was Immediate Notice Given?	No	If, Yes, to Whom?	N/A				
Was a Watercourse Reached?	No	If Yes, Volume Impact	ing Watercourse:	N/A			
Surface Owner:	State	Mineral Owner:	State				
The south booster pump faile	d because of a high press	sure line.					
1							

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

REGULATORY FRAMEWORK

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

Site Characteristics	
Approximate Depth to Groundwater	<50'
Within 330 ft. of any continuously flowing or significant watercourse?	NO
Within 200 ft. of any lakebed, sinkhole, or playa lake?	NO
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	NO
Within 500 ft. of a spring, private, or domestic freshwater well?	NO
Within 1000 ft. of any fresh water well?	NO
Within the incorporated municipal boundaries or within a municipal well field?	NO
Within 300 ft. of a wetland?	NO
Within the area overlying a subsurface mine?	NO
Within an unstable area such as Karst?	NO
Within a 100-year floodplain?	NO

A search of the groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average groundwater depth within one (1) Mile radius of the Release Site and identify any registered water wells within $\frac{1}{2}$ Mile of the Release Site. The data initially found on the State Engineers website showed there was NO water data within a $\frac{1}{2}$ 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). The soil in this area is made up of Largo-Stony Land Complex, with 0 to 25 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained. There is NOT a high potential for karst geology to be present around the Foster Eddy (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					
	Chloride	EPA 300.0	600 mg/kg					
	ТРН	EPA SW-846	100 mg/lrg					
	(GRO+DRO+MRO)	Method 8015M	100 mg/kg					
<50 Feet	BTEX	EPA SW-846	50 mg/kg					
	BIEA	Method 8021B or 8260B	30 mg/kg					
	Benzene	EPA SW-846	10 mg/kg					
	Denzene	Method 8021B or 8260B	10 mg/kg					

INITIAL SITE ASSESSMENT

On December 27th, 2022, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples in the area where the spill had came out of the booster and ran down to the nearest low spot south of the containment. Four (4) soil samples were collected in this area in an effort to determine the vertical extent of soil impact. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

12-27-22 Sample Results										
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')										
Sample Date 12-27-22		Closure Criteria ≤50 mg/kg	Closure Criteria ≤10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg		
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES		
	0-6"	ND	ND	ND	ND	ND	ND	624		
S-1	1'	ND	ND	ND	ND	ND	ND	208		
5-1	2'	ND	ND	ND	ND	ND	ND	112		
	3'	ND	ND	ND	ND	ND	ND	112		
	0-6"	ND	ND	ND	ND	ND	ND	448		
	1'	ND	ND	ND	ND	16.4	16.4	9330		
S-2	2'	ND	ND	ND	ND	ND	ND	6800		
	3'	ND	ND	ND	ND	ND	ND	1200		
	4'	ND	ND	ND	ND	ND	ND	1010		
	0-6"	ND	ND	ND	ND	ND	ND	32		
	1'	ND	ND	ND	ND	ND	ND	32		
S-3	2'	ND	ND	ND	ND	ND	ND	32		
	3'	ND	ND	ND	ND	ND	ND	16		
	4'	ND	ND	ND	ND	ND	ND	16		
	0-6"	ND	ND	ND	ND	ND	ND	16		
	1'	ND	ND	ND	ND	ND	ND	32		
S-4	2'	ND	ND	ND	ND	ND	ND	112		
	3'	ND	ND	ND	ND	ND	ND	112		
	4'	ND	ND	ND	ND	ND	ND	16		

12 27 22 Sample Pagult

(ND) - Analyte Not Detected

A Site Map & Sample Maps are provided in Figures #1 and #5.

REMEDIATION ACTIVITIES

On February 6th, 2023, Paragon mobilized personnel and heavy equipment to conduct remedial activities. Based on the site characteristics and field observations made during the site assessment, the following details the remedial activities we conducted to advance the Release Site toward an NMOCD-approved site closure.

Our remediation began on the north side of the containment and travelled around the west side and all the way down to the south side of the containment to where the spill had ended. The area of S-1 was excavated to a depth of 1.5 feet BGS. The area of S-2 was excavated to a depth of 5 feet BGS. Email notification was sent to the NMOCD. We utilized 5-point bottom composite sampling and sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this sampling event are in the following data table.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')										
Sample Date 3-10-23		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		
BC - 1	1.5'						0	400		
BC - 2	1.5'						0	480		
BC - 3	5'						0	80		
BC - 4	5'						0	96		
E. SW	1.5'	ND	ND	ND	ND	ND	0	64		
N. SW 1	1.5'	ND	ND	ND	ND	ND	0	1060		
N. SW 2	5'	ND	ND	ND	ND	ND	0	64		
S. SW	5'	ND	ND	ND	ND	ND	0	80		
W. SW	5'	ND	ND	ND	ND	ND	0	896		

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

Upon receiving these sample results, an additional foot was removed from the walls of N.SW 1 and W.SW. We then emailed the NMOCD, giving them a 48-hour notification that we would obtain confirmation samples. We utilized 5-point bottom composite sampling and sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this event are in the following data table.

4-10-23	Confirmation	Samples	(On-Pad Area)
---------	--------------	---------	---------------

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date	ple Date 4-10-23 ple Date 4-10-23 Solution for the set of the s					Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg	
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
NSW - 1 Comp	5'						0	48
WSW Comp	5'						0	144

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

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

CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2231932450, be closed. Spur has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

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

Respectfully,

Tristan Jones Project Coordinator Paragon Environmental, LLC



Chris Jones Environmental Professional Paragon Environmental, LLC



Attachments

Figures:

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

Appendices:

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



Figures:

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

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Appendix A Referenced Water Data:

New Mexico State of Engineers Office

Received by OGD: 4/24/2023 10:55:12 AM s/nmwrs/ReportProxy?queryData=%7B"report"%3A"waterColumn"%2C%0A"BasinDiv"%3A"false #9826 15 of 69

Same and Same	W	ate					00	v			e Engino <mark>pth to</mark>		ter	
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orphan C=the file closed)	ned,	1	(1			W 2=NE est to lar	3=SW 4=SI gest) (N	E) IAD83 UT	ΓM in m	neters)	(In f	eet)	
		POD Sub-		QQ	Q								v	Vater
POD Number	Code	basin	County	64 16	4 Se	e Tws	Rng	Х		Y	DistanceDep	thWellDept	hWater Co	olumn
RA 12307 POD1		RA	ED	4 2	2 14	4 17S	28E	580495	36339	81 🌍	2970	140	58	82
										Averag	ge Depth to Wate	er:	58 fee	et
											Minimum Dej	oth:	58 fee	et
											Maximum Dep	th:	58 fee	et
Record Count: 1														
UTMNAD83 Radius S	earch (in	meters)	<u>:</u>											
Easting (X): 5792:	51.172		North	ning (Y)	36	31283.1	97		Radius:	3200				

1/9/23 10:47 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Appendix B Soil Survey:

U.S.D.A. FEMA Flood Map

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)

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

Page 18 of 69

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

04°9'31"W 32°49'15"N



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

104°8'54"W 32°48'45"f

regulatory purposes.

unmapped and unmodernized areas cannot be used for legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for elements do not appear: basemap imagery, flood zone labels,

This map image is void if the one or more of the following map

⁰Releaseed to Imaging: 9/11/2023.1996:31 PM

1,500

2,000

Feet

1:6,000

Without Base Flood Elevation (BFE) Zone A, V, A99 Page 19 of 69

FEMA

Legend





Appendix C:

C-141

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

State of New Mexico Energy Minerals and Natural **Resources Department**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

)

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Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Incident ID		
District RP		
Facility ID		
Application ID		

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🗌 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name:	Title:
Signature: Katherine Purvis	Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date: 11/152022

Form C-141

Incident ID	NAPP2231932450
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 4/24	2023 10:55:12 AM State of New Mex			Page 24 of 6 5
Form C-141			Incident ID	NAPP2231932450
Page 2	age 2 Oil Conservation Divi		District RP	
			Facility ID	
			Application ID	
regulations all operators public health or the envir failed to adequately inve	nformation given above is true and compleate required to report and/or file certain re- ronment. The acceptance of a C-141 report stigate and remediate contamination that post of a C-141 report does not relieve the optice of a C-141 report does not rel	lease notifications and perform of t by the OCD does not relieve th ose a threat to groundwater, surf	corrective actions for rel ne operator of liability sh face water, human health	eases which may endanger ould their operations have or the environment. In
Printed Name: Kathy	Purvis.	Title: HSE Coord	inator	
Signature: <u>Kather</u>	ine Purvis	Date: 04/24/2023		
email: <u>katherine.purvi</u>	s@spurenergy.com	Telephone: 575-4	41-8619	
OCD Only				
Received by:	celyn Harimon	Date: 0	4/24/2023	

Incident ID	NAPP2231932450
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: Kathy Purvis.

Signature: Katherine Purvis

email: katherine.purvis@spurenergy.com

Title: HSE Coordinator

Date: 04/24/2023

Telephone: 575-441-8619

OCD Only

Received by: Jocelyn Harimon

Date: 04/24/2023

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

Closure Approved by:	Date:
Printed Name:	Title:



Appendix D:

Email Notification

Photographic Documentation

Page 27 of 69

Date: Tuesday, March 7, 2023 at 5:00:22 PM Central Standard Time

From: Chris Jones

- To: Bratcher, Michael, EMNRD, Hamlet, Robert, EMNRD, Nobui, Jennifer, EMNRD, ocdonline, emnrd, EMNRD, Enviro, OCD, EMNRD
- CC: Katherine Purvis, Braidy Moulder, Tristan Jones (Tristan@paragonenvironmental.net), Jeremy Maner

Attachments: image001.jpg, image002.jpg, image003.jpg

Mike,

We will be obtaining confirmation samples at the Halberd Booster Pump for the above-referenced incident on 3-10-23 at approximately 8 am

Thank You,

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



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

From: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>
Date: Tuesday, March 7, 2023 at 3:52 PM
To: Chris Jones <chris@paragonenvironmental.net>, "Hamlet, Robert, EMNRD"
<Robert.Hamlet@emnrd.nm.gov>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnrd.nm.gov>, "ocdonline, emnrd, EMNRD" <emnrd.ocdonline@emnrd.nm.gov>, "Enviro, OCD, EMNRD"
<OCD.Enviro@emnrd.nm.gov>
Cc: Katherine Purvis <katherine.purvis@spurenergy.com>, Braidy Moulder
<bmoulder@spurenergy.com>, "Tristan Jones (Tristan@paragonenvironmental.net)"

<tristan@paragonenvironmental.net>, Jeremy Maner <jeremy@paragonenvironmental.net> Subject: RE: [EXTERNAL] nAPP2231932450

Chris,

I attempted to call, but went to voicemail, so I will just lay it out here in black and white. The rule requires two business days notification. I had hoped to not make too big a deal out of this but you seem insist on pushing things in that direction. Samples collected at the Halberd Booster Pump on 3/9/23 will not be

Subject: Confirmation Sample Notification

Date: Wednesday, April 5, 2023 at 4:28:59 PM Central Daylight Time

From: Tristan Jones

To:mike.bratcher@state.nm.us, Robert.Hamlet@state.nm.us, Jennifer.Nobui@state.nm.us, ChrisJones, katherine.purvis@spurenergy.com, bmoulder@spurenergy.com, Angel Pena, Jeremy Maner

All,

Good morning! This is to inform you all that we will be collecting confirmation samples at the Halberd Booster Pump on 04-10-23 at 12:00 PM. If you have any questions or concerns, please let me know.

Incident number - nAPP2231932450

Thank you,

Tristan Jones Project Coordinator 1601 N. Turner Ste. 500 Hobbs, NM 88240 <u>tristan@paragonenvironmental.net</u> 575-318-6841



Photographic Documentation

Before Remediation









Released to Imaging: 9/11/2023 1:36:31 PM



Photographic Documentation

During Remediation





Photographic Documentation

Post Remediation





Appendix E:

Laboratory Results



January 03, 2023

CASON SPURLOCK PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS, NM 88242

RE: HALBERD

Enclosed are the results of analyses for samples received by the laboratory on 12/27/22 15:36.

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

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY COUN	TY		

Sample ID: S - 1 0-6" (H226080-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/30/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/30/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	90.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.2	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 1 1' (H226080-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/28/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/28/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/28/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 1 2' (H226080-03)

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	12/30/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/30/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	83.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.4	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 1 3' (H226080-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/30/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	71.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.2	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 2 1' (H226080-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/30/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	16.4	10.0	12/29/2022	ND					
Surrogate: 1-Chlorooctane	98.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	NTY		

Sample ID: S - 2 2' (H226080-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/31/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	84.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.0	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 2 3' (H226080-07)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/31/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/31/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	109	45.3-16	1						
Surrogate: 1-Chlorooctadecane	121	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 2 4' (H226080-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/31/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	93.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 2 0-6" (H226080-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/31/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	106 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	117 9	46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 3 0-6" (H226080-10)

BTEX 8021B	mg/kg A		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/31/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	93.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104 9	46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 3 1' (H226080-11)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.06	103	2.00	2.05	
Toluene*	<0.050	0.050	12/31/2022	ND	2.18	109	2.00	1.60	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.12	106	2.00	0.240	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.52	109	6.00	0.0225	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	88.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.8	% 46.3-17	8						

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		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY COUN	TY		

Sample ID: S - 3 2' (H226080-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.06	103	2.00	2.05	
Toluene*	<0.050	0.050	12/31/2022	ND	2.18	109	2.00	1.60	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.12	106	2.00	0.240	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.52	109	6.00	0.0225	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	94.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

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		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY CO	UNTY		

Sample ID: S - 3 3' (H226080-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	89.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.9	% 46.3-17	8						

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		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 3 4' (H226080-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	60.0	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	63.9	% 46.3-17	8						

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		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	Spur - Eddy Coun	ITY		

Sample ID: S - 4 0-6" (H226080-15)

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	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	86.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.2	% 46.3-17	8						

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		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY COUN	TY		

Sample ID: S - 4 1' (H226080-16)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



		PARAGON ENVIROMENTAL		
		CASON SPURLOCK		
		5002 CARRAIGE RD		
		HOBBS NM, 88242		
		Fax To:		
Received:	12/27/2022		Sampling Date:	12/27/2022
Reported:	01/03/2023		Sampling Type:	Soil
Project Name:	HALBERD		Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY CO	UNTY		

Sample ID: S - 4 2' (H226080-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	212	106	200	1.55	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	190	94.8	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					
Surrogate: 1-Chlorooctane	83.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.3	% 46.3-17	8						

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		CASON SPURLOCK				
		5002 CARRAIGE RD				
		HOBBS NM, 88242				
		Fax To:				
Received:	12/27/2022		Sampling Date:	12/27/2022		
Reported:	01/03/2023		Sampling Type:	Soil		
Project Name:	HALBERD		Sampling Condition:	** (See Notes)		
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez		
Project Location:	Spur - Eddy Coun	ITY				

Sample ID: S - 4 3' (H226080-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	212	106	200	1.55	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	190	94.8	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					
Surrogate: 1-Chlorooctane	103	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	113	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



		CASON SPURLOCK				
		5002 CARRAIGE RD				
		HOBBS NM, 88242				
		Fax To:				
Received:	12/27/2022		Sampling Date:	12/27/2022		
Reported:	01/03/2023		Sampling Type:	Soil		
Project Name:	HALBERD		Sampling Condition:	** (See Notes)		
Project Number:	NOT GIVEN		Sample Received By:	Shalyn Rodriguez		
Project Location:	Spur - Eddy Coun	ITY				

Sample ID: S - 4 4' (H226080-19)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	212	106	200	1.55	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	190	94.8	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					
Surrogate: 1-Chlorooctane	92.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 4/24/2023 10:55:12 AM



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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished Sampler - UPS - Bus - Other: Delivered By: Project Location: Eddy County Project Name: Phone #: 575-631-6977 Sampler Name: City: Address: 5002 Carriage Rd 0800184 Project #: Project Manager: Cason Spurlock Company Name: Paragon Environmental Lab I.D FOR LABUSE ONLY JEN+NDI Hobbs Hallberry Circle One revenus who Sample I.D. Date: 17.17 L'AUS UL'L' aler Fax #: DEGlamin Project Owner: SPuil State: NM Zip: 88242 0 Dille : N Received By Received by: (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER Ves Cool Intac Sample Condition WASTEWATER Intact MATRIX SLUDGE 1088 Cf OTHER State: City: Phone #: Attn: Brody Wolder P.O. #: ax #: Company: SPUK Address ACID/BASE PRESERV CHECKED BY (Initials) OTHER BILL TO Zip 12.27 DATE SAMPLING Fax Result: REMARKS: Phone Result: TIME Erroil results to Chris Jones off the spp TPH Ext DI BTEX Chlorides Yes 0. NO Add'I Phone 5: Add'I Fax #: ANALYSIS REQUES

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



March 17, 2023

TRISTAN JONES PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS, NM 88242

RE: HALBERD BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 03/14/23 15:12.

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

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/14/2023	Sampling Date:	03/10/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY, NM		

Sample ID: BC - 1 (H231165-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/15/2023	ND	432	108	400	0.00	

Sample ID: BC - 2 (H231165-02)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/15/2023	ND	432	108	400	0.00	

Sample ID: BC - 3 (H231165-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/15/2023	ND	400	100	400	3.92	

Sample ID: BC - 4 (H231165-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/15/2023	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/14/2023	Sampling Date:	03/10/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY, NM		

Sample ID: N. SW 1 (H231165-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	03/15/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/14/2023	Sampling Date:	03/10/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY, NM		

Sample ID: N. SW 2 (H231165-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/15/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/14/2023	Sampling Date:	03/10/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY, NM		

Sample ID: E. SW (H231165-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/15/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/14/2023	Sampling Date:	03/10/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY, NM		

Sample ID: S. SW (H231165-08)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/15/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					
Surrogate: 1-Chlorooctane	80.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/14/2023	Sampling Date:	03/10/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY, NM		

Sample ID: W. SW (H231165-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	03/15/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 4/24/2023 10:55:12 AM

Sampler - UPS - Bus - Other:	SANSSY CONTRACT	101 East Marlanc (575) 393-2326 Company Name: Corte gon Project Manager: Tool 2
Ob Co	and Sample I.D. Sample I.D. G(G)RAB OR (C)OMP.	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Contempon
Cause whateover shall be deemed waked unless made in writing and received by Cardinal within 30 days after completion of the queurish damages, including without limitation, business interruptions, loss of true, cro loss of profits incurred by cienct, its subsidiaries of services hereunder by Cardinal, loss of true, cro loss of profits incurred by cienct, its subsidiaries of services hereunder by Cardinal Matter such claim is based upon any of the above stated reasons or otherwise. Date:: 7/4 Received By: All Results a loss of profits incurred by cienct, its subsidiaries or otherwise. Date:: 7/4 Received By: All Results a loss of profits incurred by cienct, its subsidiaries or otherwise. Date:: 7/4 Received By: All Results a loss of profits incurred by cienct, its subsidiaries or otherwise. Time: Coop Initiacy Initiacy REMARKS: Time: Coop Initiacy ChecKED BY: Turmaround initiacy rected Temp. °C 1.0 Yes Yes Yes Yes	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	
Vied by Cardinal within 30 days after (use, or loss of profils incurred by c ed upon any of the above stated to CHECKED BY: (Initials)		BILL TO
	THE TIME TIME TIME TO A SAMPLING	
ble Ves O No Add'l Phone #: mailed. Please provide Email address: Mailed. Please provide Emailed. P		ANALYSIS REQUEST

Page 9 of 9



April 14, 2023

CHRIS JONES PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS, NM 88242

RE: HALBERD BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 04/10/23 15:03.

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

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/10/2023	Sampling Date:	04/10/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY, NM		

Sample ID: NSW - 1 COMP (H231675-01)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/13/2023	ND	416	104	400	0.00	

Sample ID: WSW COMP (H231675-02)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/13/2023	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 4/24/2023 10:55:12 AM



Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

CONDITIONS

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	210097
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition

We have received your closure report and final C-141 for Incident #NAPP2231932450 HALBERD BOOSTER PUMP, thank you. This closure is approved. 9/11/2023 rhamlet

CONDITIONS

Action 210097

Condition Date